

# **XEL-1291 12-Port L3 Managed 10-Gigabit Ethernet Switch, 8 x 1G/2.5G/5G/10GbE RJ45, 4 x 1G/2.5G/10G SFP+ Uplinks, 240Gbps Non-Blocking Fabric, 19-Inch Rackmount**

## **Product Images**

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## Short Description

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- **Multi-Gig 10G Connectivity:** 8 x 100M/1G/2.5G/5G/10G RJ45 ports and 4 x 1G/2.5G/10G SFP+ uplinks for flexible copper and fiber designs.
- **High-Performance Fabric:** 240Gbps non-blocking switching capacity and 178.56Mpps forwarding for wire-speed throughput on every port.
- **Advanced L3 Routing:** Static IPv4/IPv6 routes, RIP v1/v2, OSPF v2 and BGP-4 for scalable inter-VLAN and WAN routing.
- **Rich VLAN Segmentation:** Supports up to 4K 802.1Q VLANs with QinQ, private, voice, guest and subnet-based VLAN options.
- **Strong Security:** 802.1X authentication, ACLs, MAC/port limiting and DoS protection to block unauthorized access and attacks.
- **Service-Aware QoS:** Eight hardware queues per port with SP, WRR and WDRR scheduling to prioritize voice, video and critical services.
- **Resilient Architecture:** LACP/static trunks, MSTP (64 instances) and ERPS rings for load sharing and sub-second failover.
- **Comprehensive Management:** Web GUI, console/Telnet/SSH, HTTPS/SSL, SNMP v1/v2c/v3, Syslog and FTP/TFTP for easy deployment and monitoring.
- **Rack-Ready Design:** 19-inch rack-mount L3 10G switch ideal for SMB cores, campus edge and high-performance workgroups.

## Description

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The LevelOne XEL-1291 is a high-performance Layer 3 managed 10G Ethernet switch designed for SMB cores, campus edge and high-demand workgroups. It integrates eight 100M/1G/2.5G/5G/10G adaptive RJ45 ports with four 1G/2.5G/10G SFP+ uplinks, delivering flexible copper and fiber connectivity for servers, NAS, access switches and wireless infrastructure in a standard 19-inch rack-mount form factor.

Featuring a non-blocking switching fabric of 240 Gbps and forwarding performance up to 178.56 Mpps, the XEL-1291 provides true wire-speed throughput on every port, even under heavy mixed traffic and jumbo-frame workloads. This makes it ideal for bandwidth-intensive applications such as virtualization, high-speed backup, multimedia

production and large file transfers.

The switch delivers full Layer 3 functionality with support for IPv4/IPv6 static routes, RIP v1/v2, OSPF v2 and BGP-4, enabling dynamic and scalable routing between VLANs and upstream networks. Up to 4K IEEE 802.1Q VLANs with QinQ, private, voice, guest and subnet-based options allow precise traffic segmentation for multi-tenant and departmental deployments. IGMP v1/v2/v3 snooping ensures efficient handling of multicast streams such as IPTV and video conferencing.

Enterprise-grade security features include 802.1X port-based authentication, MAC and port limiting, Access Control Lists (ACLs) and DoS protection, helping to prevent unauthorized access and mitigate attacks at the network edge. Eight hardware queues per port with SP, WRR and WDRR scheduling provide service-aware QoS, ensuring that latency-sensitive voice, video and business-critical data receive appropriate priority and guaranteed bandwidth.

For resilience and high availability, the XEL-1291 supports LACP/static link aggregation, MSTP (up to 64 instances) and ERPS ring protection, combining load-balanced bandwidth with sub-second failover. A comprehensive management toolkit—including Web GUI, console/Telnet/SSH CLI, HTTPS/SSL, SNMP v1/v2c/v3, Syslog and FTP/TFTP—simplifies deployment, monitoring, firmware upgrades and ongoing configuration, making the XEL-1291 an efficient and cost-effective 10G upgrade path for modern SMB and edge networks.

# Additional Information

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| Customs product code (TARIC). | 8517620000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Features.                     | <p>L3 Features : • Static Route (IPv4/IPv6) • Route Aggregation • DHCPv4 Server • DHCPv6 Server • RIPv1/v2/RIPng • OSPF v2/v3 • BGP4/BGP6 • VRRP (IPv4/IPv6) • PIM (IPv4/IPv6) • Virtual stacking</p> <p>L2 Features : 1. MAC Address Table • MAC Aging Time • MAC Filter • MAC Notification 2. Basic Management • Console/Telnet/SSH • Http/Https • SSL/TLS • FTP/TFTP • Syslog • SNMP(v1/v2c/v3). • SNMP Trap • RMON • SNTp/NTp • CPU protect • Software/Hardware watchdog • Firmware Upgrade/Backup • Ping/Traceroute • Onvif • ZTP 3. Port Config • Bandwidth Control • Flow Control • EEE • MTU • CFM(802.1ag) • EFM OAM(802.3ah) • DDM • Storm Control • Port Isolation • Port Security • Virtual Cable Test • ULDP/Cisco UDLD 4. Discovery • LLDP(802.1ab) • LLDP-MED 5. Link Aggregation • Static • LACP(802.3ad) • Load Balance(src-mac/dst-mac/src-ip/dst-ip) • Max groups and ports per group 6. VLAN • VLAN(802.1Q 4K) • Access/Trunk/Hybrid • Private VLAN • VLAN Filter • MAC-based VLAN • Protocol-based VLAN • IP Subnet-based VLAN • Voice VLAN • GVRP/GMRP • QinQ/Selective-QinQ/Flexible QinQ • VLAN Translation/N:1 VLAN Translation • Guest VLAN 7. Network Loop Detection • Loopback Detection • ERPS 8. Spanning Tree • STP/RSTP/MSTP • MSTP Support 64 instance • BPDU Guard/Root Guard/BPDU Tunnel 9. ARP • Static ARP • ARP Scanning Prevention • ARP Spoofing Prevention • ARP Guard • Gratuitous ARP • Dynamic ARP Inspection • ARP Quantity Control IPv4 Related Function : 1. ICMP • Anti ICMP Attack • ICMP Rate Limit • ICMP Unreachable Drop 2. Control Multicast • DCSCM 3. Multicast VLAN • Multicast VALN 4. IGMP • IGMP SNOOPING v1/v2/v3 • Fast Leave • IGMP Proxy 5. DHCP • DHCP Client/BOOTP • DHCP Relay • DHCP Snooping • DHCP Option 82/43/60/61/67 IPv6 Related Function : 1. IPv6 Basic • IPv6 ND Snooping 2. DHCPv6 • DHCPv6 Relay • DHCPv6 Snooping • IPv6 SAVI • Security Raw 3. IPv6 Multicast Routing • MLD v1/V2 Snooping 4. IPv6 Features • SNMP over IPv6 Support • HTTP over IPv6 Support • SSH over IPv6 Support • DNS over IPv6 Support • IPv6 ping/traceroute Support • IPv6 Telnet Support • IPv6 Radius+ Support • IPv6 Tacacs+ Support • IPv6 SNTp/NTp Support • IPv6 FTP/TFTP Support • IPv6 IPsec Support • IPv6 ACL QoS(Quality Of Service) : 1. Basic • Trust COS/DSCP • Trust Port 2. Scheduling • SP • WRR • WDRR 3. PolicyMap Stream • Based on VLAN • Based on COS/DSCP • Aggregate PolicyMap • Ingress PolicyMap 4. Policing • CAR Stream Shaping(leak algorithm) • Ingress Policing 5. Rewrite • COS/802.1p Priority • IP Precedence • IPv4 DSCP/IPv6 DSCP • drop-precedence • internal-priority • Ingress/Egress Rewrite 6. Queuing • DSCP to DSCP mapping • DSCP to DP mapping • DSCP to Queue mapping • COS to DP mapping • COS to Queue mapping ACL : 1. IP-ACL • SIP/DIP • IP Protocol • IP Priority/Untag 3. IP-MAC ACL • MAC-ACL and IP-ACL 4. User-defined ACL • Base on user defined profile 5. ACL Features • Based on time period ACL • ACL on VLAN • Based on ACL Stream</p> |
| Security.                     | <p>Security 1. 802.1x • Port Based Authentication • Support EAPoR • MAC based Authentication • Guest VLAN 2. MAB • Based on Port Authentication • Based on MAC Authentication 3. MAC Address Count Limit • Based on Port • Based on VLAN 4. IP Address Count Limit • Based on Port • Based on VLAN 5. Access Management • Based on source mac and IP address 6. Deny DoS Attack • TCP Flag • TCP Fragment • IP Segment • ICMP 7. TACACS+ • Standard Support 8. Radius • Standard Support • Client, Support MD5 9. SSL • Openssl 1.1.0</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| PoE Supported.                | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Concurrent ports.             | Total 12.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Fanless.                      | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Manageable.                   | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Grade.                        | Commercial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Switching capacity.           | 240 Gbps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Color.                        | Black                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| EAN.                          | 4015867242988                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Model Number.                 | XEL-1291                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Dimensions (W x D x H).       | 440 x 207 x 44 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Product weight (kg).          | 2.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Data Rate.                    | 10Gbps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Packet forwarding rate.       | 178.56 Mpps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Jumbo frame (KB).             | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Mount.                        | 19" rack mount, Desk mount                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| MTBF.                         | 100,000 hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Packet buffer.                | 16 Mbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Power consumption.            | • DC full load: 43.21W • AC full load: 48.2W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Power supply.                 | 100-240 VAC, 50/60Hz, 2A Max                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Power supply included.        | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Standards.                    | IEEE 802.3 10-BASE-T, Ethernet, IEEE 802.3u 100-BASE-TX, Fast Ethernet, IEEE 802.3ab 1000BASE-T, Gigabit Ethernet, IEEE 802.3x Full-duplex Flow Control, IEEE 802.3az Energy-Efficient Ethernet, IEEE 802.3ae changeable (10GBASE-SR/LR/ER), IEEE 802.1p Quality of Service (QoS), IEEE 802.1Q Virtual LANs (VLANs), IEEE 802.1D Spanning Tree Protocol (STP), IEEE 802.1w Rapid Spanning Tree Protocol (RSTP), IEEE 802.1s Multiple Rapid Spanning Tree Protocol (MSTP), IEEE 802.3ah Ethernet Link OAM, IEEE 802.3ad Link Aggregation Control Protocol (LACP), IEEE802.3z 1000Base-SX/LX, IEEE 802.3bz 2.5 Gigabit Ethernet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Approval and Compliance.      | ● FCC Part 15 Subpart B, Class A ● CE ● UKCA ● EN 62368-1 ● EN 55032 ● EN 55035 ● EN 61000-3-3 ● RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Operating humidity.           | 10% RH ~ 90% RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Operating temperature.        | 0°C ~ 50°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Storage humidity.             | 5% RH ~ 90% RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Storage temperature.          | -40°C ~ 70°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Package Contents.             | ● XEL-1291 ● Power Cord ● DB9 to RJ45 Console Cable ● 19" Rack Mount Kit ● Rubber Feet ● Quick Installation Guide ● Declaration of Conformity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

