

# IGU-2072 20-Port L2+ Managed Gigabit Industrieswitch, 8x 1GbE RJ45, 8x 1GbE SFP, 4x 1/2.5GbE SFP, DIN-Schiene, -40°C bis 80°C

## Product Images



## Short Description

- Bietet umfassende Konnektivität mit 8 10/100/1000Base-T RJ45, 8 100/1000Base-X SFP Ports und 4 1G/2.5GBase-X SFP Ports.
- Stellt zuverlässigen Betrieb durch redundante 12-75V DC Stromversorgung, erweiterten Überspannungsschutz (6kV) und ESD-Schutz (Luftentladung 15kV, Kontaktentladung 8kV) sicher.
- Ausgelegt für raue Umgebungen mit lüfterlosem IP40 Gehäuse und breitem Betriebstemperaturbereich von -40°C bis +80°C.

- Liefert unterbrechungsfreien Betrieb durch G.8032 ERPS Protokoll mit <20ms Wiederherstellungszeit.
- Unterstützt erweiterte Layer-2-Funktionen wie VLAN, STP/RSTP/MSTP, Link Aggregation, QoS und IGMP Snooping für optimierte Netzwerkperformance.
- Bietet robustes Layer-2-Management mit VLAN, QinQ, Port Mirroring, ACL und 802.1X für Netzwerksegmentierung und Sicherheit.
- Vereinfacht Konfiguration und Verwaltung mit benutzerfreundlichen Web-, SNMP-, CLI- und Telnet-Schnittstellen.
- Unterstützt Remote-Konfiguration, Firmware-Upgrades und Systemüberwachung.
- Ermöglicht erweiterte Layer-3-Routing mit IPv4/IPv6 statischem Routing, DHCP-Server und anderen wichtigen Protokollen.

## Description

---

Der LevelOne IGU-2072 ist ein robuster L2+ Managed Industrial Ethernet Switch, der für anspruchsvolle Umgebungen entwickelt wurde. Mit seinen 8 Gigabit RJ45-Ports, 8 Gigabit SFP-Ports und 4 2,5-Gigabit SFP-Ports bietet er umfassende Layer-2-Managementfunktionen und schnelle Failover-Fähigkeiten. Dieser Switch gewährleistet unterbrechungsfreien Betrieb durch sein ERPS-Redundanznetzwerk mit einer Wiederherstellungszeit von unter 20 ms. Er bietet herausragende Konnektivität und Bandbreite für anspruchsvolle industrielle Anwendungen.

## Additional Information

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Code des Harmonisierten Systems (HS) | 851762                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Zolltariflicher Warencode (TARIC)    | 8517620000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Features                             | <p>Layer 2 functions Port aggregation ■ GE port aggregation ■ 2.5GE aggregation ■ 10GE aggregation ■ Static aggregation ■ LACP dynamic aggregation ■ Up to 64 aggregation groups and up to 8 ports per group Port features ■ Support IEEE802.3x flow control ■ Support interface counters ■ Support port isolation ■ Port mirroring ( One-to-One, Many-to-One) ■ Support loop detection(Port-based; VLAN-based) ■ Support broadcast storm suppression(broadcast; unknown multicast; unknown unicast) Mac-address table management ■ Static Mac-address management ■ Dynamic Mac-address Management ■ Filtering Mac-address ■ MAC limit based on port and VLAN ■ MAC flapping based on port and VLAN GVRP ■ Normal mode ■ Fixed mode ■ Forbidden mode VLAN ■ Support access mode ■ Support trunk mode ■ Support hybrid mode VLAN classification ■ Mac Based VLAN ■ IP Based VLAN ■ Protocol Based VLAN QinQ ■ Port-based QinQ ■ VLAN-based QinQ(VLAN-stacking; VLAN-mapping) ■ Flow-based QinQ Ring network protocol ■ Support IEEE802.1D-STP ■ Support IEEE802.1W-RSTP ■ Support IEEE802.1S-MSTP ■ Support G.8032 ERPS protocol, single ring, sub Ring and major ring Recovery time ≤20ms Multicast functions ■ IGMP snooping ■ Group address LLDP (Link Layer Discovery Protocol)</p> |
| Verwaltung                           | <p>User Management ● Support password protection ● Support user authorization management SNMP ● Supporting SNMP V1/V2C/V3 version Web Management ● Support HTTP V1.1 ● Support HTTPS CLI management ● Console/Telnet command line management RMON ● Support RMON(Remote Monitoring) alarm Firmware upgrade Fault Detection ● Ping/Tracerout ● Dying gasp ● Support DDM function Cable detection ● Support copper port cable detection NTP ● Network Time Protocol Syslog/Debug ● Syslog send to three servers Configuration import/export ● Support FTP/TFTP remote import/export ● Support USB import/export Dual partition management ● Support dual partition switching</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sicherheit                  | ACL ■ IP Standard ACL ■ MAC extend ACL ■ IP extend ACL ■ IPv6 ACL QoS ■ Support QoS Class, remarking ■ Support SP, WRR queue scheduling ■ Ingress port-based rate-limit ■ Egress port-based rate-limit ■ Support policy-based QoS 802.1x ■ Port access control ■ Mac-address access control ■ RADIUS server IP source guard ■ IP Port/MAC binding ARP-check ■ Support ARP-check and ARP packet filtering for illegal users Access control ■ Support Telnet/SSH/HTTP/HTTPS user access control Port-security |
| Fanless                     | Ja                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Manageable                  | Ja                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Grade                       | Industrial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Zulassungen und Konformität | ● CE ● UKCA ● FCC Part 17, Subpart B Class B ● RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Operating humidity          | 10% RH ~ 90% RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Operating temperature       | -40°C ~ 80°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Storage humidity            | 5% RH ~ 95% RH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Storage temperature         | -40°C ~ 85°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Lieferumfang                | ● IGU-2072 ● Console Cable ● Power Terminal Block ● Din-rail Mount Kit ● Quick Installation Guide ● Declaration of Conformity                                                                                                                                                                                                                                                                                                                                                                               |
| Schaltleistung              | 52 Gbps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Power Redundancy            | Dual Power Input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Dimensions (W x D x H)      | 96 x 115 x 158 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Produktgewicht (kg)         | 1.79                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Farbe                       | Schwarz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| EAN                         | 4015867239278                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Modellnummer                | IGU-2072                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| IP grade                    | IP40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Backplane (Gbit/s)          | 52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Indikator                   | ● SYS (System status indicator) ● P1/ P2 (Power1/2 indicator) ● USB (USB status indicator) ● Ring (Ring network indicator)                                                                                                                                                                                                                                                                                                                                                                                  |

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Jumbo-Frames (KB)     | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| MAC-Adresstabelle     | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Befestigung           | DIN rail mount                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| MTBF                  | 200,000 hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Paketpuffer           | 12 Mbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Port Configuration    | 8x 10/100/1000 Ethernet ports, 8x 100/1000 SFP ports, 4x 1G/2.5G SFP+ ports                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Energieverbrauch      | 25W (Full loading)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Eingangsspannung      | 12-75VDC (Redundant power input)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Power supply included | Nein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Standards             | <ul style="list-style-type: none"> <li>● IEEE 802.3 10Base-T Ethernet</li> <li>● IEEE 802.3u 100Base-TX Ethernet</li> <li>● IEEE 802.3ab 1000Base-T Ethernet</li> <li>● IEEE 802.3z 1000Base-X Ethernet</li> <li>● IEEE802.3x Flow Control and Back Pressure</li> <li>● IEEE 802.1D Spanning Tree Protocol</li> <li>● IEEE 802.1w Rapid Spanning Tree Protocol</li> <li>● IEEE 802.1Q VLAN</li> <li>● ITU-T G.8032 ERPS</li> <li>● IEEE 802.1X Port Authentication Network Control</li> <li>● IEEE 802.1ab LLDP</li> <li>● IEEE 802.3ad LACP</li> </ul> |

