

Ethernet over Coax in the 3rd generation

EOC 1-32 | Ethernet over Coax | 1800 Mbps

- ✓ Peer-to-Peer
- ✓ Transmission range 5...204 MHz
- ✓ Net data rate 1800 Mbps (PHY)
- ✓ 2 x RJ 45 Connectors
- ✓ Incl. external switching power supply

EOC 2-32 | Ethernet over Coax | WiFi

- ✓ Same as EOC 1-32
- ✓ WiFi for Tablet, Smartphone, Notebook etc.
- ✓ 2,4/5 GHz Band
- ✓ 128 bit-AES-Encryption



Available devices:

EoC 1-32 | Ethernet over Coax

EoC 2-32 | Ethernet over Coax | WiFi

Ethernet over Coax - as easy as a switch!

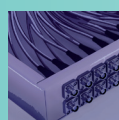
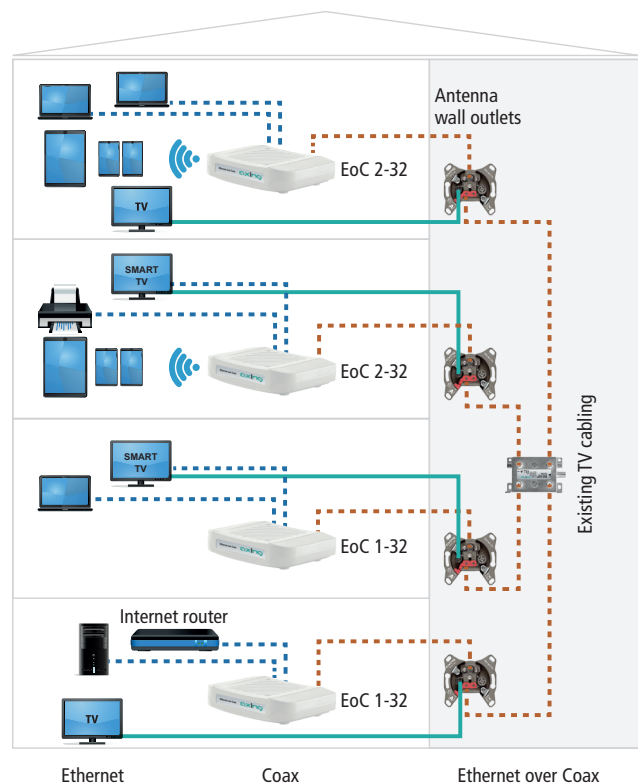
The EoC devices use the G.hn standard to set up an Ethernet-over-Coax network via the coaxial cable of the TV cabling (TV and radio will of course continue to be transmitted). This EoC network acts like a large switch (in the example with 8 ports) distributed throughout the whole house.

Two Ethernet-capable devices (PCs, notebooks, servers, printers, smart TVs, etc.) can be connected to each EoC device. Additionally the EoC 2-31 is equipped with WLAN.

EOC 1-32 and EOC 2-32 use the return path range from 5 to 204 MHz and achieve a net data rate of 1800 Mbps* (PHY) due to the bandwidth. However, this is only possible if in a modern CATV network the forward path frequency range of the CATV network starts at 258 MHz or if transmitters below 258 MHz can be dispensed with.

Typical scenarios can be residential buildings with SAT television, lawyers' offices, medical practices or offices where LAN wiring is not possible/desired.

*The data rate indicates the data throughput between the EoC devices. For technical reasons, a maximum of 1000 Mbps is available at each Ethernet interface.



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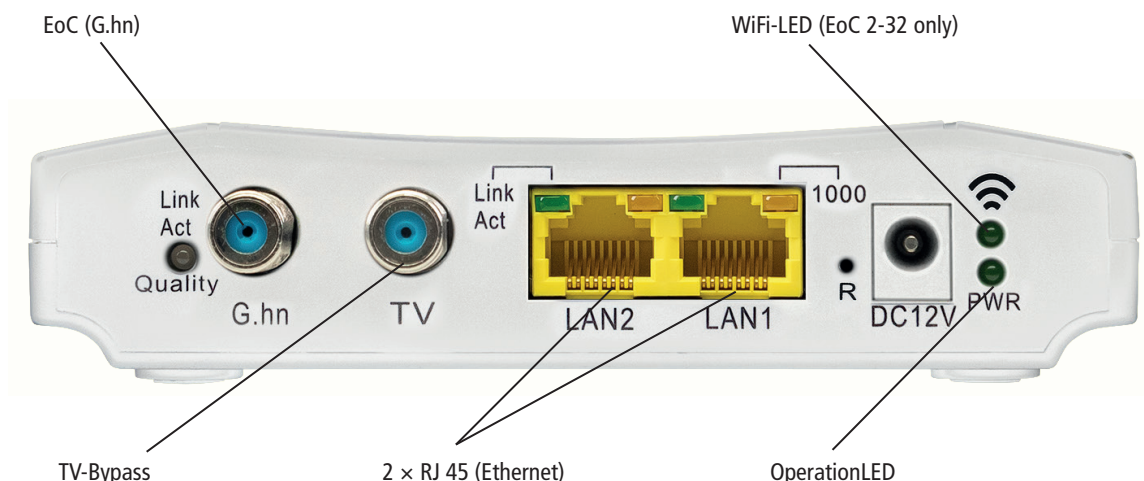
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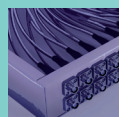
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Rear side



Typ	EoC 1-32	EoC 2-32
Frequency range		5...1800 MHz
Connectors (G.hn TV)		2 × F-female
Frequency range transmission		5...204 MHz
Frequency range TV bypass		258...1800 MHz
Max. attn. in coaxial network		77 dB
Transmission level in coaxial network		113 dBμV ± 1dB
EoC		
Standard	ITU-T G.9960/G.9961 G.hn over Coax	
Net data rate (PHY)	1800 Mbps	
Max. number of devices in EoC network	16	
Interfaces		
Ethernet connectors (LAN)	2 × RJ 45	
Ethernet standards	IEEE 802.3u 100BaseT Fast Ethernet IEEE 802.3ab 1000BaseT Gigabit Ethernet	
WiFi standard	-	MIMO 2x2 IEEE 802.11b/g/n/a/ac
WiFi encryption	-	WEP, WPA/WPA2, WPA/WPA2 m. PSK
Common		
Operation voltage		12 VDC
Power consumption	4 W	8 W
Operating temperature range (acc. to EN 60065)	0°C...40°C	
Dimensions (W × H × D) appr.	130 x 95 x 32 mm	
External accessories		
Switching power supply	100...240 V~/50...60Hz 12 V=0,5 A	100...240 V~/50...60Hz 12 V=1 A



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