Competence in Communication Technologies

Ethernet over Coax Peer-to-Peer – building digitization at 1800 Mbps

EOC 1-32 | Ethernet over Coax | 1800 Mbps

- ✓ Peer-to-Peer
- ✓ Transmission range 5...204 MHz
- ✓ Net data rate 1800 Mbps (PHY)
- ✓ 128 bit-AES-Encryption
- ✓ 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

Available devices:

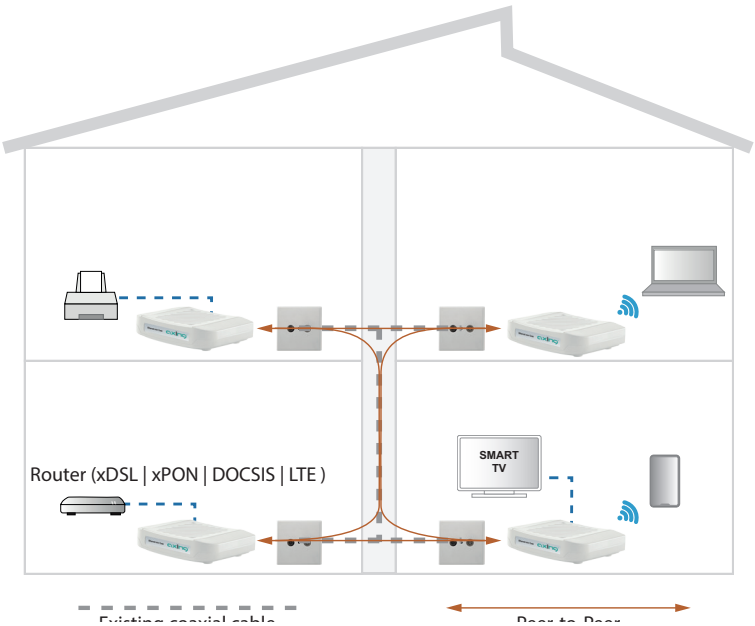
EoC 1-32 | Ethernet over Coax
EoC 2-32 | Ethernet over Coax | WiFi

Accessories:
TZU 40-05 | RF- and EoC inserter
TZU 19-68X | High-pass filter | return path blocker

Ethernet over Coax - as easy as a switch!

The EoC devices use the G.hn standard to set up an encrypted 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 WiFi.
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. This is possible without any problems with a SAT reception system. In the CATV network, however, only if the forward path frequency range starts from 258 MHz.
Typical scenarios can be residential buildings with SAT television, lawyers' offices, medical practices or offices where LAN wiring is not possible/desired.

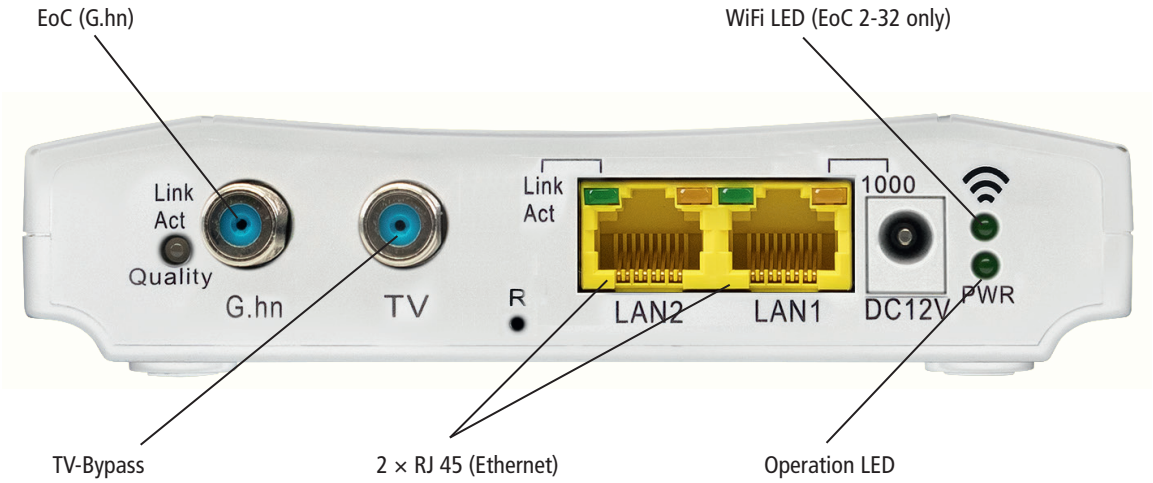
*The data rate indicates the data throughput between the EoC devices. For technical reasons, a maximum of 1000 Mbps is available at each Ethernet interface.



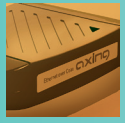
AXING AG
Gewerbehaus Moskau
Phone +41 52 - 742 83 00
Fax +41 52 - 742 83 19
8262 Ramsen
info@axing.com
www.axing.com

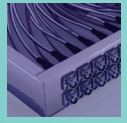
Competence in Communication Technologies

Rear side



Type	EOC 1-32	EOC 2-32
Frequency range	5…1800 MHz	
Frequency range transmission	5…204 MHz	
Frequency range TV bypass	258…1800 MHz	
Maximum allowed attenuation 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*	
Encryption	AES 128 Bit	
Max. number of devices in EoC network	16	
Connectors (G.hn | TV)	2 × F-female	
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
General		
Operating voltage	12 VDC	
Power consumption	4 W	8 W
Operating temperature range	0°C…40°C	
Dimensions (W × H × D) appr.	130 x 95 x 32 mm	
External accessories		
Switching power supply	100…240 V~/50…60 Hz | 12 V=/0.5 A	100…240 V~/50…60 Hz | 12 V=/1 A
General		
Comments	* 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.	






AXING AG
Gewerbehaus Moskau
Phone +41 52 - 742 83 00
Fax +41 52 - 742 83 19
8262 Ramsen
info@axing.com
www.axing.com