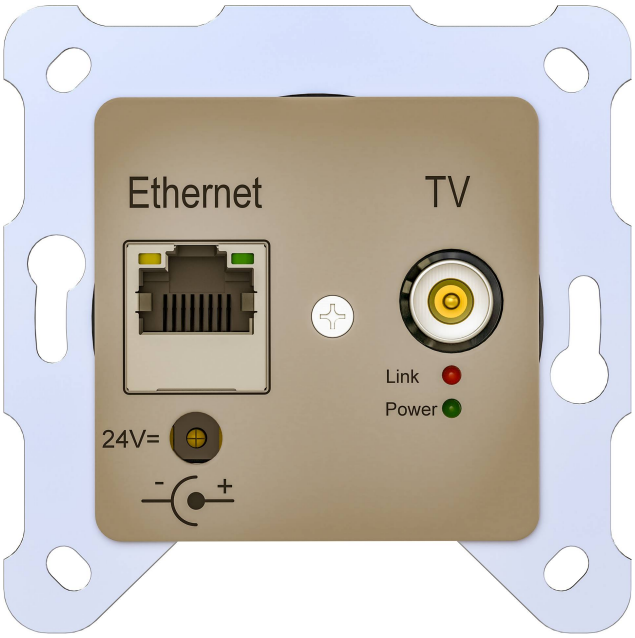
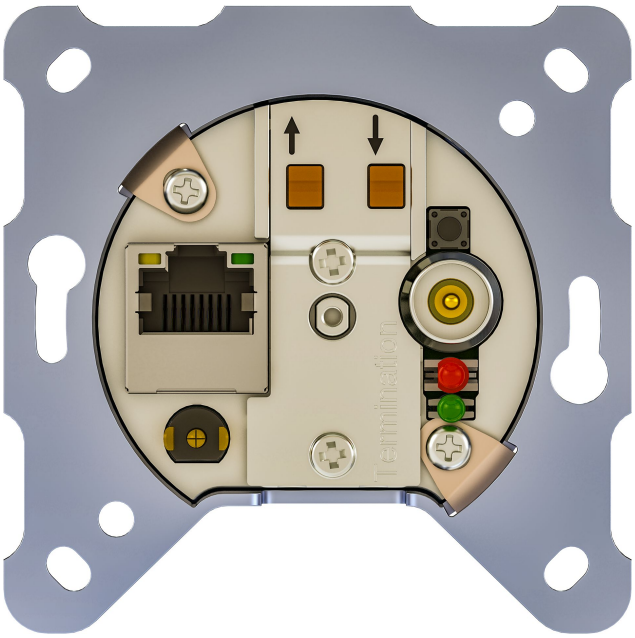
Preliminary Product Information: EOC1000





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Digital Devices

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Description

The EOC1000 is an in-wall socket which supports the simultaneous transmission of Internet and Cable TV on an existing coax cable network.

The installation of the in-wall socket is adding an internet connection to the existing use of cable TV on the same coax cable.

It contains an integrated GBit LAN interface and a C pass-through socket.

Internet / Network data can be utilized via the GBit Ethernet connection.

The coaxial socket provides a broadband cable signal in the range of 240MHz to 860 MHz.

The TV signal gets decoupled via coaxial socket, whereas network data is transmitted via the RJ45 socket.

Interconnection of individual in-wall sockets is done automatically.

The EOC1000 can be powered via remote supply by an AMP X8, or with a 24V/1A power supply.

Then it can supply 4 subsequent EOC1000.

The EOC1000 can be installed in a single flush-mounted box, as well as in a multiple flush-mounted box.

Each EOC1000 can exchange data with any other flush-mounted box.

Recommended application:

Building upgrade with Gigabit with existing coaxial cabling and small budget.

- home users
- small company networks
- Hotels
- hospitals
- Sanatoriums
- Retirement homes
- renovation of old buildings

Comparison of the transmission standard

Standard	G.Hn über COAX	WLAN	Powerline	DOCSIS 3.0/3.1 über Coax
net data rate	EOC1000 - 700MBit	240Mbit – WiFi 4[2] 600MBit - Wi-Fi 5[2] 800MBit - Wi-Fi 6[2]	400MBit Powerline AV1200[2] 400MBit Powerline AV2000[2]	1600 MBit/s dowload[3] 240 MBit/s upload[3]
Acquisition cost	medium	Wi-Fi4 devices cheap Wi-Fi5 devices medium Wi-Fi6 devices expensive	AV1200 devices cheap AV2000 devices medium	high requires DOCSIS - CMTS server
Power consumption	up to 4W/GBit	6W/GBit Access point included	up to 6W/GBit	>8W/GBit server included
Susceptibility to interference	not susceptible to	yes, by many users	yes, by electrical consumers	not susceptible to
Eavesdropping security	yes	WPA3 yes WPA2 no	yes	yes
visual impact	small disappears in the wall	medium router takes up space	large protrudes from the wall socket	medium modem takes up space

[2] sourse: https://de.wikipedia.org/wiki/Datendurchsats
[3] sourse: https://de.wikipedia.org/wiki/Data_Over_Cable_Service_Interface_Specification

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Technical Specification

- C-throughput in-wall socket
- Can be integrated into single outlets and multiple outlets
- Frequency range 2 – 80 MHz
- Network standard : G.Hn
- Data rate Gross: 1000 Mbps
- Data rate Net: 700 Mbps
- Attenuation 300…860 MHz: -2 dB (18db coupling)
- Attenuation 300…860 MHz: -3 dB (12db coupling)
- Coulping: 12db or 18dB
- Hardware encryption : AES 128-bit
- Quality of Service: VLAN/TOS/Packet Classifier/ Virtually perfect transmission with IPTV
- Remote servicing: TR-069 remote management (optionally)

👍 Only suitable for DVB-C wiring

👎 Satellite wiring is not supported

Connections

- Coax in
- Coax out / Termination
- RJ-45 socket (GBit)
- IEC TV socket
- Power connection for remote powering 24V / 1A (Sufficient for 5 serial connected in-wall sockets)

Power Consumption EOC1000

Datarate net	Power Consumption
50 Mbit/s	2,06 Watt
100 Mbit/s	2,27 Watt
200 Mbit/s	2,47 Watt
300 Mbit/s	2,68 Watt
400 Mbit/s	2,81 Watt
500 Mbit/s	2,90 Watt
750 Mbit/s	3,05 Watt

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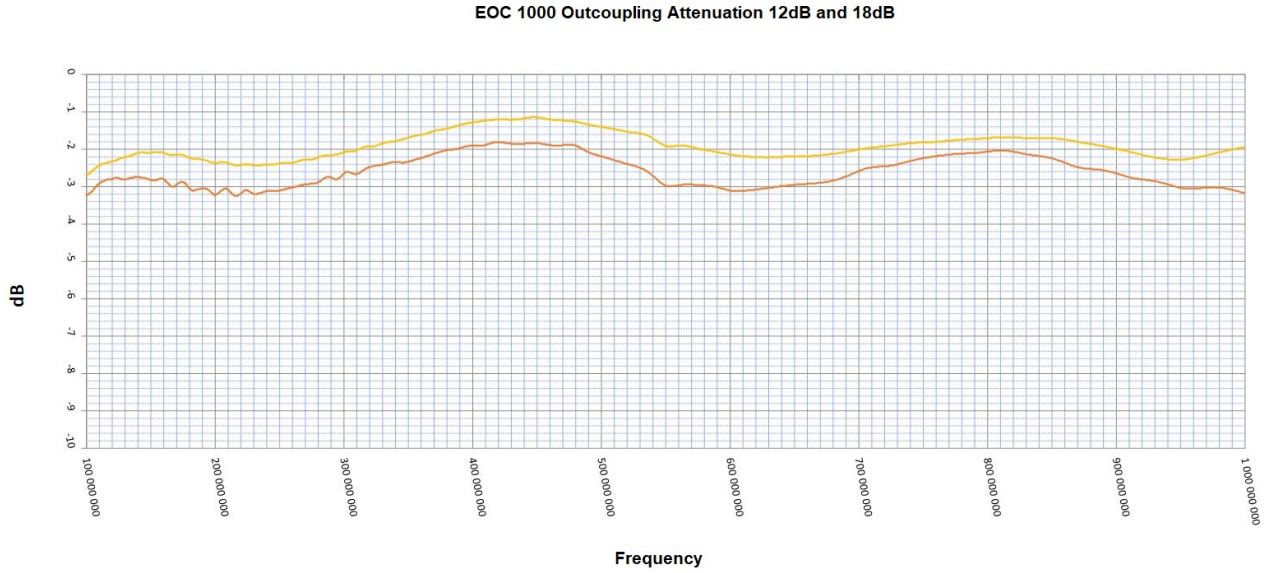

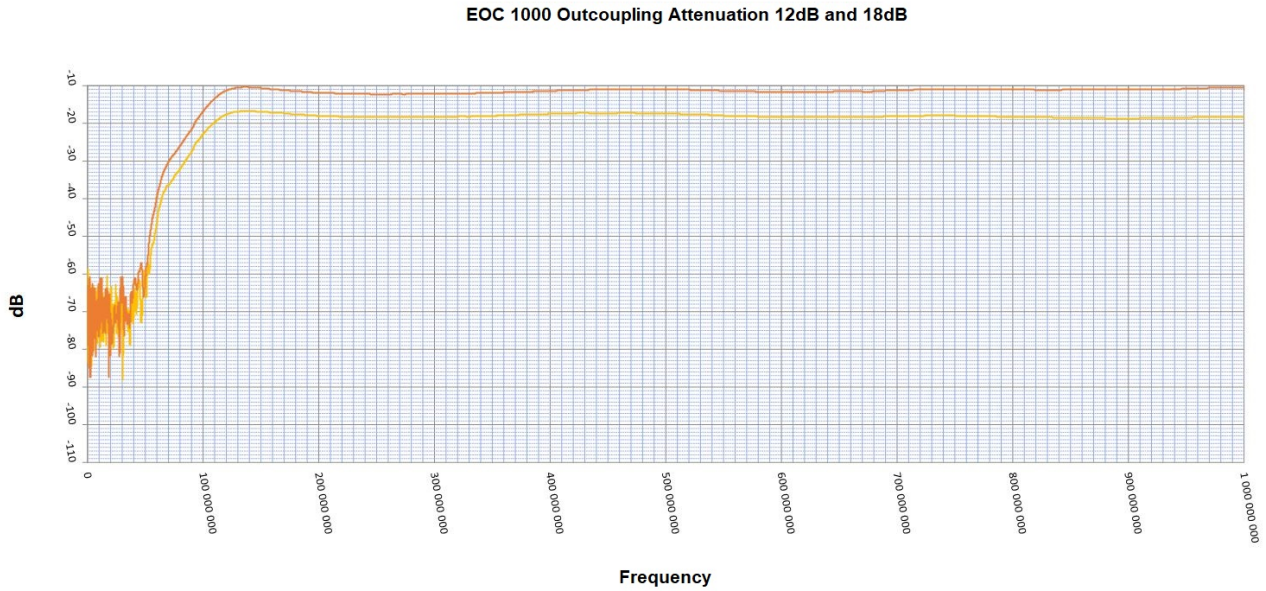

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Available switch ranges

Switch program compatibility table from different manufacturers for 50x50mm and 55x55mm.

manufacturer	productline	colour RAL 9010 *) / finish material	for variants ”50x50” is a frame necessary (No. s.u.)	variants ”55x55” are without frame compatible
BERKER	S.1/ B.1	pure white matt	1109 19 19	Yes
BERKER	S.1	pure white glossy	1109 90 89	Yes
BERKER	Modul 2	pure white glossy	1109 09	No
BERKER	Arsys	pure white glossy	1108 01 69	Yes
BERKER	B.3	Alu/pure white glossy	1109 90 89	Yes
BERKER	B.3	Alu/pure white matt	1109 19 19	Yes
BERKER	B.7 Glas	Glas/pure white glossy	1109 90 89	Yes
BERKER	B.7 Glas	Glas/pure white matt	1109 19 19	Yes
BERKER	K.1	pure white glossy	1108 71 09	No
BERKER	Q1	pure white glossy	1108 71 09	No
BUSCH-JÄGER	Reflex SI Linear	alpine white glossy	1746-214-101	No
BUSCH-JÄGER	alpha exclusive	studiowhite (RAL 9016* glossy)	1746/10-24G	No
BUSCH-JÄGER	alpha nea	studiowhite (RAL 9016* matt)	1746/10-24	No
BUSCH-JÄGER	impuls	alpine white glossy	1746/10-74	No
BUSCH-JÄGER	solo	studiowhite (RAL 9016* glossy)	1746/10-84	No
BUSCH-JÄGER	future / future linear	studiowhite (RAL 9016* glossy)	1746/10-84	No
BUSCH-JÄGER	axcent	studiowhite (RAL 9016* glossy)	1746/10-84	No
BUSCH-JÄGER	carat (Glas, Bronze, Gold)	studiowhite (RAL 9016*)	1746/10-84	No
GIRA	Flächenschalter	pure white (glossy)	0282 112	No
GIRA (System 55)	Standard	pure white (silk matt)	0282 27	Yes
GIRA (System 55)	Standard	pure white (glossy)	0282 03	Yes
GIRA (System 55)	E 2	pure white (silk matt)	0282 27	Yes
GIRA (System 55)	E 2	pure white (glossy)	0282 03	Yes
GIRA (System 55)	E 22	pure white (glossy)	0282 03	Yes
GIRA (System 55)	Event	pure white (silk matt) + Opak...	0282 27	Yes
GIRA (System 55)	Event	pure white (glossy) + Opak...	0282 03	Yes
GIRA (System 55)	Esprit	pure white (silk matt)+Glas, Alu...	0282 27	Yes
GIRA (System 55)	Esprit	pure white (glossy)+Glas, Alu...	0282 03	Yes
GIRA	S-Color	pure white (hochglossy)	0282 40	No

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JUNG	ST 550	alpine white glossy	CD 590 Z WW	No
JUNG	CD 500 / CD plus	alpine white glossy	CD 590 Z WW	No
JUNG	A 500 / A plus	alpine white glossy	A 590 Z WW	Yes
JUNG	AS 500	alpine white glossy	A 590 Z WW	Yes
JUNG	LS 990	alpine white glossy	LS 961 Z WW	No
JUNG	LS plus	alpinwhite (Glas)	LS 961 Z WW	No
JUNG	A creation	alpine white glossy	A 590 Z WW	Yes
JUNG	LS Design	alpine white glossy	LS 961 Z WW	No
MERTEN (System M)	M-Smart	pure white matt	5181 19	Yes
MERTEN (System M)	M-Arc	pure white matt	5181 19	Yes
MERTEN (System M)	M-Plan	pure white matt	5181 19	Yes
MERTEN (System M)	M-Star	pure white matt	5181 19	Yes
MERTEN (System M)	M-Smart	pure white glossy	5185 19	Yes
MERTEN (System M)	M-Arc	pure white glossy	5185 19	Yes
MERTEN (System M)	M-Plan	pure white glossy	5185 19	Yes
MERTEN (System M)	M-Star	pure white glossy	5185 19	Yes
MERTEN (System Basis)	M1	pure white glossy	5171 19	No
MERTEN (System Basis)	Atelier	pure white glossy	5171 19	No
MERTEN (System Basis)	1-M	pure white glossy	5185 19	Yes
MERTEN (System Basis)	Atelier-M	pure white glossy	5185 19	Yes
MERTEN (System Fläche)	Artec	pure white glossy	5160 99	No
MERTEN (System Fläche)	Trancent	pure white glossy	5160 99	No
MERTEN (System Fläche)	Antik	pure white glossy	5160 99	No
MERTEN	Octocolor	pure white glossy	5171 19 + Adapter 5170 99	No
PEHA	Standard	pure white (glossy)	80.670.02 ZV	No
PEHA	Dialog	pure white (glossy)	95.670.02 ZV	No
PEHA	Aura	pure white (matt) / Glas	20.670.02 ZV	No

Note: Most light switch programs are designed in a shade of colour similar to RAL 9010, for which the switch manufacturers use different names. As well as colored or glass and aluminum frames can be combined with white rockers or sockets, that means, that controller with white covers can also be integrated into these frames. The exact use must be checked in each individual case. The frames have different surface textures mat / glossy. For design reasons, the cover of the controller should have the same surface (standard is glossy. However, covers are also available in mat). 50x50mm: The housing covers of the 50x50 controllers have the edge dimension 50x50mm. This means that they can be integrated into almost all light switch programs using 50x50 mm intermediate frames in accordance with DIN 49075. The 50x50 intermediate frames can be ordered from the light switch manufacturer or from the wholesale trade 55x55: The housing cover of the 55x55mm variant has the edge dimension 55x55mm. Many light switch programs have an internal dimension of 55x55mm. This means that the 55x55mm cover plates can be integrated directly into these light switch programs without an intermediate frame. Whether the 55x55mm cover plates fit into the respective light switch range, please check the column " Variant 55x55.."

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