

# Optical Network Termination CP 20



Product information



## **WISI CP 20...**

... is a state-of-the-art customer premises equipment for FTTH rollouts, providing multiple IP-based services over a high-speed broadband connection. The device is designed to meet the requirements of next generation access networks based on active ethernet offering complete triple play services with telephony, data and video interfaces.

### **Features:**

- Optical Network termination for FTTH network
- 2 PSTN telephone connectors (simultaneous mode)
- 1 x LAN Ethernet (Bridge) or 4 x LAN Ethernet (Router)
- CATV receiver
- Automatic configuration via DHCP/TFTP server
- Remote firmware update via FTP/TFTP
- WEB interface for local configuration

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# Optical Network Termination

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CATV - optical receiver for radio and tv	
Fiber	single mode 9/125 $\mu$ m
Optical input level	-7 dBm...0 dBm
Wavelength	1280-1600 nm
Equivalent noise input	4.5 pA / $\sqrt{\text{Hz}}$
Optical connector	SC/APC 8°
Frequency range	47 - 2700 MHz
Output level	80 dB $\mu$ V $\pm$ 3 dB
- OMI 5 %	
CENELEC 42 ch	$\geq$ 60 dB CSO/CTB
Ethernet - WAN interface	
Type	100Base-BX WAN (optional 100Base-LX)
Fiber	single mode 9/125 $\mu$ m
Optical connector	SC/PC
Wavelength	TX: 1260-1360 nm, typ. 1310 nm; RX: 1480-1600 nm, typ. 1550 nm
Standard	IEEE 802.3u 100Base-BX
Optical link budget	>16 dB
Reach	15 km
Optional	Integrated WDM splitter for RF overlay TX (Data): 1310 nm, RX (Data): 1490 nm, RX (TV): 1550 nm
Ethernet - LAN interface	
Type	RJ 45 Auto MDI / MDIX; Transparent Bridging mode
Standard	IEEE 802.3 10Base-T; IEEE 802.3 100Base-T
Multicast support	IGMP v1/v2 IGMP snooping
MAC addresses	2048
Supported protection modes	Spanning Tree Protocol Rapid Spanning Tree Protocol

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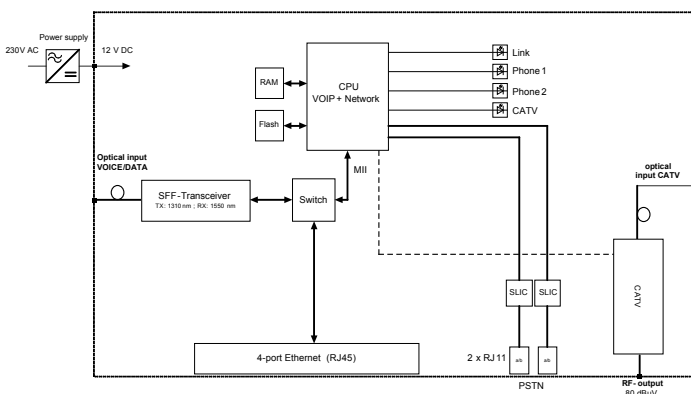
<b>Telephone</b>	
VoIP protocol	SIP (RFC 3261)
Voice codec	G.711 a-Law (optional G.726, G.729 A/B, G.723.1)
Type	2 x RJ 11 (PSTN)
Provider notes	Clip, Clir, call waiting, call on hold, Call hold/retrieve, 3-way conferencing, call diversion
Fax support	T.38 G.711 pass through
<b>Service quality and security</b>	
Quality of service	TOS/Diffserv VLAN support
Security	Integrated firewall Network address translation (NAT) Port forwarding
<b>Management</b>	
SNMP support	SNMP v1/v2c/v3
Remote Firmware update	via FTP/TFTP
Dynamic configuration	DHCP TFTP
Optional	Web interface TR-069
<b>Power supply</b>	
Type	Plug-in power supply
Nominal voltage	12 V DC
Operating voltage	100 V ... 240 V AC, 50/60 Hz
Current consumption	≤ 0,5 A
Power consumption	< 11 W
<b>General data</b>	
Environmental conditions	ETS 300 019
Ambient temperature	0 °C ... + 45 °C
Max. humidity	5 % ... 95 %
EMC	EN 55022
Safety	EN 60950
Size (WxDxH)	240,4 x 167,5 x 48,2 mm

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Optional interfaces	
ISDN S0 interface	according to ETS 300012
Reach	max. 220 m (short passive bus) max. 1100 m (point-to-point-connection)
Transmission mode	4-wire-duplex
Channel structure	2B+D, synchronisation and supervision
Line code	AMI (modified)
Total bitrate	192 kbit/s
Payload bitrate	144 kbit/s
Remote power	≤ 2 W (on request ≤ 4,5 W)
Interface	1 × RJ45
Resistor for bus termination	100 Ω (switchable)
Wireless LAN interface	
Operation mode	Access Point
Standards	802.11 g/b
Frequency range	2,412 GHz ... 2,472 GHz
Data rates	802.11 b: 11 / 5,5 / 2 / 1 Mbit/s 802.11 g: 54 / 48 / 36 / 24 / 12 / 9 / 6 Mbit/s
Supported modulations	QAM-64; QAM-16; QPSK; BPSK
Max. effective radiated power ERP	802.11g 54 Mbit/s = 17 dBm 802.11b 11 Mbit/s = 19 dBm
Antenna gain	max. 2 dBi
Receiver sensitivity	802.11g 54 Mbit/s = -72 dBm 802.11b 11 Mbit/s = -83 dBm
Encryption	WEP, WPA, WPA-2CATV - optical receiver for radio and tv

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