

XON1200.S / XON1200.SC

Gigabit Ethernet Media Converter optional with an optical compact CATV receiver



Application

The XON1200 is an Ethernet Media Converter for conversion of 1 Gbps Ethernet traffic from optical to electrical physical media and vice versa. It is equipped optional with a broadband compact receiver for terminating optical CATV signals. In combination with the wall mounting unit XON30.W the modular system allows an easy end customer setup.

Features

Ethernet

- ▶ Auto-speed detection of 100Base-BX/1000Base-BX at optical fiber WAN interface (Multi-Rate Feature)
- ▶ Fully compliant with IEEE802.3/IEEE802.3z standard
- ▶ IEEE 802.3/802.3u Auto-negotiation ability to select half/full-duplex and 10Base-T/100Base-TX/1000Base-T mode
- ▶ IEEE 802.1ad QinQ (VLAN Stacking)
- ▶ L2 wire speed packet switching
- ▶ Auto-crossover MDI/MDIX feature for plug-and-play
- ▶ 9KB Jumbo Frame support

Optical CATV Receiver

- ▶ Optical home receiver for multichannel television and radio signals like AM-VSB, FM and QAM
- ▶ Bandwidth up to 2.4GHz
- ▶ Ultra low noise push-pull technology
- ▶ Very low distortion
- ▶ Remote control and diagnostic of the optical CATV receiver

Housing: XON30.W

- ▶ XON30.W: Fiber termination box for up to 4 low bending insensitive fibers (G.657A)
- ▶ Up to 2 additional simplex SC adaptors or 2 duplex LC adapters on the bottom side
- ▶ Bottom / top / rear access for fiber break out cables
- ▶ Attractive design for living room installations

Management

- ▶ IP Address assignment via DHCP (optional)
- ▶ Remote-Configuration via DHCP/TFTP (optional)
- ▶ SNMP v1/v2c
- ▶ IEEE802.3ah OAM Support:
 - OAM Discovery
 - OAM Link Monitoring
 - OAM Loopback Control
 - Dying Gasp (optional via SYSLOG)
 - Device Reboot via OAM
- ▶ LLCF (Link Loss Carry Forward) Functionality
- ▶ LLDP (Link Layer Discovery Protocol)
- ▶ LEDs for status indication: Device Status and CATV Receiver

Green Ethernet

- ▶ Link-On Cable Length Power Saving: Copper link power adjustment based on cable length auto-detection
- ▶ LED ECO Modus

Technical Specifications

General Technical Data

Size (depth, length, width)	48 mm x 150 mm x 150 mm (size of the XON30)
Fiber Management	G657.A (Low Bending Fiber)
Weight	< 500 g
Power Supply Voltage	6V DC
Power Consumption	< 3.5W (XON1200.SC)

Climatic Specification

Operation	ETS300019, Class 3.1, Temperature 0 ... 40 °C
Storage	ETS300019, Class 1.2, Temperature 0 ... 75 °C
Humidity	10 ... 90 %, non-condensing
Compliance	CE

Standard compliance

IEEE802.3ab	1000BASE-T
IEEE802.3z	1000BASE-BX
IEEE802.3x	Flow-control and back pressure
IEEE802.3ah	OAM

Optical CATV Receiver

Optical Input Power	0...-10 dBm
RF Interface	F-Male
RF Impndance	75 Ω
Electrical Output Power	Typ.80dBμV @ -5dBm optical input power

Optional Optical WAN Interface

WAN connector type	
Dual Fiber	SC/APC (CATV) and SC/PC (IP)
Single Fiber	SC/APC
Typical Ethernet wavelength	
Mediaconverter	Tx: 1260...1360nm, typical 1310nm Rx: 1480...1620nm, typical 1490 or 1550nm
CATV Receiver	Rx: 1280...1610nm, typical 1550nm

Available Versions

XON1200.S	Gigabit Ethernet Media Converter
XON1200.C	Optical CATV Receiver
XON1200.C-WDM	Optical CATV Receiver with integrated WDM for wavelength multiplexing of 1550/1490/1310nm
XON1200.SC 2 Fiber Solution	Gigabit Ethernet Media Converter with integrated optical CATV Receiver
XON1200.SC 1 Fiber Solution	Gigabit Ethernet Media Converter with integrated optical CATV Receiver and WDM for wavelength multiplexing of 1550/1490/1310nm



XON1200.SC



XON30.W