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Genexis FiberTwist

P2400C-2.5G-Series (PtP)

Compact network demarcation



The highly successful FiberTwist ONTs have proven itself as a flexible and reliable solution. Added to the extensive portfolio is the new series with 2.5G speeds. Perfect for when the market demands higher speeds, but the step to 10G is too big. Easily upgrade from 1G tot 2.5G PtP while staying on the same wavelength for greater efficiency and faster speeds.

With the FiberTwist product range, Genexis introduces a unique broadband connectivity solution that redefines size, ease of installation and flexibility for the distribution of fiber bandwidth throughout the entire home.

Key features

- · Compact, fully managed Point-to-Point network demarcation
- Patented FiberTwist twist-on interface that fits all FiberTwist FTUs and Bracket; enabling a trouble-free, real DIY end-user installation
- One 2.5 Gigabit LAN port to meet the higher speed demand of connected devices in the home
- Three Gigabit LAN ports to connect additional external devices to the network terminator
- · Optional integrated CATV receiver
- · Flexible management via i.a. TR-069 and CloudSight
- · ITU-T K.21 Basic level (Surge Protection)
- · Halogen-free PCB
- · Enhanced LED dimming

A perfect Match for every deployment scenario

The Genexis FiberTwist product family has been developed in such a way that it can be integrated into various deployment models, including single-dwelling and multi-dwelling scenarios. Using products from the FiberTwist FTU family, the demarcation point can be extended to any desired location in the home, enabling easy access and installation of services.

Its small size (110 \times 110 \times 46 mm) makes the FiberTwist a perfect fit in any environment, be it a living room, metering cabinet or basement

The FiberTwist P2400C-2.5G-Series is the perfect next step in a Point-to-Point network to enable higher speeds in every deployment scenario.

Product features and specifications

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LAN interfaces Dimensions (H x W x D) 110x110x46 mm 1x 100/1000/2500 Base-T RJ45 port Weight 3x 10/100/1000 Base-T RJ45 ports · P2410C-2.5G TBD LED indicators for speed and activity P2411C-2.5G TBD IEEE802.3az Engery Efficient Ethernet (EEE) TBD · P2420C-2.5G Operating temperature 0 - 45 °C User interfaces Storage temperature 1 x Unlock button -25 - 55 °C Operating humidity 1 x LED dimming button 5% - 95% Storage humidity 4x LAN interface 10% - 95% Flame retardants Halogen free 1 x Power connector Power supply voltage 12 Vdc ± 5% 1 x Reset button 1 x CATV output coaxial F-female*

Model	Ready Mode	On Mode	
P2410C-2.5G	TBD	TBD	
P2411C-2.5G	TBD	TBD	
P2420C-2.5G	TBD	TBD	

Fiber (WAN) interface

Optics compliant with 2500BASE-BX20U and 1000BASE-BX20U

TX (upstream) power	-4 o dBm		
RX sensivity	-27 dBm		
TX wavelength (typical)	1310 nm		
RX wavelength (typical)			
· FiberTwist P2410C-2.5G	1490 & 1550 nm		
· FiberTwist P2411C-2.5G	1490 nm		
· FiberTwist P2420C-2.5G	1490 nm		
Single mode fiber	ITU-T G.657.A2		
Optical connector	SC/APC		

Up to 20km

Digital Diagnostic Monitoring (DDM)

Configurable optical blackout (for OTDR)

Optical Range

CATV*

Wavelength (typical)	1550 nm
Optical return loss	min 40 dB
RF passband	45-900 MHz
RF output impedance	75 Ω
F-Connector length	8,5 mm
AGC optical input power	-9 o dBm
RF output level (AGC on)	80 ± 2.5 dBμV
RF flatness	max 2 dB
Output return loss	max -10 dB
Slope / tilt	1 4 dB
CNR min	47 dB@-8 dBm
CSO / CTB	max -57 dBc
Spurious to carrier	max -57 dBc
MER QAM-64	> 35
MER QAM-256	> 37
BER	max 1.0E-9
Remote management via TR	-069

Remote management via TR-069



^{*} Applicable to selected models only

Product features and specifications

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Jumbo up to 9K supported on WAN and LAN

Non-blocking switching performance

Up to 8K MAC addresses

Automatic learning and aging

IEEE 802.1Q VLAN support for 4096 VLANs

VLAN classification and retagging (VLAN

mapping)

Port-based VLANs

IEEE 802.1ad QinQ VLAN tagging

Port Trunking and Monitoring/Mirroring

Layer 2 loop prevention

Quality of Service (QoS)

8 QoS traffic classes

Port based QoS

IEEE 802.1p tagged frames

IPv4 QoS Type of Service (ToS)

IPv4 QoS Differentiated Services (DS)

IPv6 QoS Traffic Class

Strict, weighted, or mixed mode per port

Management

DHCP/TFTP, HTTP

TR-069, TR-369, TR-181

CLI

CloudSight

Ethernet OAM including dying gasp

GUI

IGMP/MLD (v2/v3) snooping and proxy

Configurable parameters for e.g. robustness, fast

leave and snooping behavior

Emissions and safety regulations

CE approved

Safety:

- · IEC EN 62368-1
- · BS EN 62368-1

Laser safety:

· IEC 60825-1: Class 1 laser

Emissions & Immunity:

- · EN 55032/CISPR 32, Class B
- · EN 55035

RoHS/WEEE marking:

· Compliant with 2011/65/EU

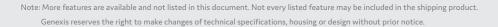
Surge protection

· Compliant with ITU-T K.21 basic level

Power/Alarm \bigcirc Fiber uplink status <> LAN 용 CATV status*

Genexis FiberTwist P2400C-2.5G-Series product models

Model T	Туре	WAN (Mbps)	1GE LAN	2.5GE LAN	Wavelength		
					TX	RX	CATV
FiberTwist P2410C-2.5G	Layer-2 PtP ONT	2500	3x	1x	1310 nm	1490 nm & 1550 nm	-
FiberTwist P2411C-2.5G	Layer-2 PtP ONT	2500	3x	1x	1310 nm	1490 nm	-
FiberTwist P2420C-2.5G	Layer-2 PtP ONT	2500	3x	1x	1310 nm	1490 nm	Yes





^{*} Applicable to selected models only