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Genexis FiberTwist P2000-Series Point-to Point (PtP)

Compact network demarcation

Providing Gigabit fiber connectivity to any desired location in the home, is one of today's major challenges.

With the endless variety of different deployment scenarios and end-user requirements, this calls for a flexible and scalable connectivity solution. 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
- A flexible solution matching both single-dwelling and multidwelling deployment scenarios
- Patented FiberTwist click-on interface on the FTU or Bracket, enabling trouble-free, DIY end-user installation
- Flexible management via TR-069, CLI, DHCP/TFTP and SNMP
- · Optional integrated CATV receiver
- $\cdot\,$ Up to 4 Gigabit LAN ports to connect external devices, such as a Residential Gateway and various Layer 2 services
- LED dimming
- Wall junction box compatible

A perfect fit 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 x 110 x 46 mm) makes the FiberTwist a perfect fit in any environment, be it a living room, metering cabinet or basement.

Product features and specifications

Genexis FiberTwist P2000-Series Point-to Point (PtP)

General specifications

Dimensions (H x W x D) 1^{-1}	
Weight (without an CATV)	176 g
Weight (with CATV)	225 g
Power supply voltage	12 Vdc ± 5%
Operating temperature	0 - 40 °C
Storage temperature	0 - 70 °C

Power consumption (EU-CoC-BBE)

P2110B	3.0 W Idle Mode
	3.0 W On Mode
P2410 & P2411	3.0 W Idle Mode
	4.9 W On Mode
P2414	3.6 W Idle Mode
	5.8 W On Mode
P2420	5.4 W Idle Mode
	7.4 W On Mode

WAN interface

Tx wavelength	1310 nm	User i
Rx wavelength**	1490/1550 nm	1 x Ur
Optical output range	-93 dBm	1 x Re
Optical input range	-233 dBm	1 x LE

Network interface

Single mode fiber (ITU-T G.657) SC/APC connector Up to 20 km range Compliant with 1000BASE-BX20-U Compliant with 100BASE-BX20-U Auto sensing 1Gb/s and 100Mb/s

Voice features*

SIP based Voice-over-IP G.711 A-law / µ-law codec G.729 codec 5 REN support Line Echo Cancellation DTMF: In-band, RFC2833, SIP-Info

Class 5 features

* Applicable to selected models only

** The WAN receiver is wideband. In case it is combined with CATV it is sensitive to 1490nm only

*** Not applicable to the FiberTwist P2110B

Genexis FiberTwist P2000-Series product models

Wavelength Model Туре WAN (Mbps) LAN interface Voice port CATV Τх Rx (FXS) FiberTwist P2110B 1000/100 1310 nm Media converter 1x 1490 nm & 1550 nm FiberTwist P2410 1000/100 1310 nm Network terminator 4x 1490 nm & 1550 nm FiberTwist P2411 1310 nm Network terminator 1000/100 4x 1490 nm FiberTwist P2414 1000/100 1310 nm Network terminator 4x 1490 nm Yes FiberTwist P2420 Network terminator 1000/100 1310 nm 1550 nm 4x 1490 nm

Note: Not every listed feature may be included in the shipping product. We reserve the right to make changes of technical specifications, housing or design without prior notice

CATV	*	

Wavelength (typical)
Optical return loss
RF passband
RF output impedance
F-Connector length
AGC optical input power
RF output level (AGC on) according to CENELEC-42
RF flatness
Output return loss
Slope / tilt
CNR min
CSO / CTB
Spurious to carrier
MER QAM-64
MER QAM-256
Remote enabling of CATV

interfaces

1 x Unlock button
1 x Reset button ***
1 x LED dimming button
1 or 4x LAN interface
1 x Power connector
1 x CATV output coaxial F-female *
1x Telephone FXS/RJ11 port *

Layer 2 features

Support Jumbo frames (up to 9K Managed Quality of Service (QoS Network Terminator

- Remote port enabling/disabling
- · Remote per-port rate shaping
- Up to 64 VLANs or 802.1q transparent
- Q-in-Q (PVID 88a8)
- Media Converter
- WAN link state forwarding
- WAN to LAN link speed following

Management

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1550 nm	Network Terminator
min 45 dB	• TR-069, TR-181
45-900 MHz	• GAPS (7.0 and higher)
75 Ω	· CLI
11 mm	· DHCP/TFTP
-9 0 dBm	\cdot IEEE 802.3ah OAM in passivemode:
80 ± 2.5 dBµV	• Discovery
4% OMI / ch	• Loopback
max 2 dB	<u>Media Converter</u>
max -10 dB	• HTTP
1 4 dB	· DHCP / TFTP
47 dB@-8 dBm	• IEEE 802.3ah OAM in passive mode:
max -57 dBc	• Discovery
max -57 dBc	• Loopback
> 34	Remote monitoring

Remote monitoring

- · CATV input signal
 - · (Calculated) RF output

LAN interfaces

Up to 4 1000/100/10Base-T RJ45 interfaces LED indicators for link and activity

Emissions and safety regulations

- CE approved, FCC on request Safety:
- · IEC EN 60950 or IEC EN 62368-1 Lasor safety:
- ser
- Class B
- RoHS/WEEE marking:
- · Compliant with 2011/65/EU

Status LEDs

Power	ڻ ا
Fiber uplink status/activity	<>
CATV status *	\Box
Telephony status *	<u>ت</u>

	Laser satety:
	• IEC EN 60825-1: Class 1 las
()	Emissions & Immunity:
5)	• EN 55032/CISPR 32:2008,
	• EN 55024
7	POHS/MEEE marking