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Genexis FiberTwist P3000-Series Point-to Point (PtP)

Compact network demarcation with routing

The Genexis FiberTwist P3000-Series provide network demarcation and routing functionality in one compact device, right at the place where the fiber enters the home.

With the P3000-Series, there is no need to waste space and money on additional residential gateways, while it still enables WiFi coverage in

Key features

- Compact, fully managed Point-to-Point network demarcation, based on a single-fiber design
- Patented FiberTwist click-on interface on the FTU, enabling trouble-free, DIY end-user installation
- High-speed routing functionality with 4 managed Gigabit Ethernet ports
- Flexible management via TR-069, CLI, DHCP/TFTP, SNMP or/and GAPS (Genexis Automatic Provisioning System)
- $\cdot\,$ Optional integrated CATV receiver
- · Seamless interoperability with large variety of In-Home devices
- Wall junction box compatible
- LED dimming

any residence when combined with one or more In-Home products.

With this solution, the end-user or the operator can place an In-Home Wifi device, such as the Genexis Pulse, at a place where wireless connectivity truly matters.

The best match for In-Home devices

In order to have a great network at home, it's no longer necessary to have an overly complicated residential gateway. Instead, the router functionality is already in place in the FiberTwist P3000-Series products. That way, the WiFi functionality can be handled exclusively by In-Home devices, reducing interoperability issues with routers and improving placement and performance.

Being one of the smallest of its kind (110 x 110 x 46mm) the FiberTwist is a perfect fit in any environment, saving space in metering cabinets and basements.

Product features and specifications Genexis FiberTwist P3000-Series Point-to Point (PtP)

General specifications

Dimensions (H \times W \times D)	110x110x46 mm		
Weight (without on CATV)	176 g		
Weight (with CATV)	225 g		
Power supply voltage	12 Vdc ± 5%		
Power consumption	max. 5.1 W		
with CATV *	max. 6.5 W		
Operating temperature	0 - 40 °C		
Storage temperature	0 - 70 °C		

WAN interface

Tx wavelength	1310 nm		
Rx wavelength**	** 1490/1550 nm		
Optical output range	-93 dBm		
Optical input range	-233 dBm		

Network interface

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

Layer 2 features

Support Jumbo frames (up to 9k) Managed Quality of Service (QoS)

User interfaces

x Unlock button
x Reset button
x LED dimming button
x or 4x LAN interface
x Power connector

1 x CATV output coaxial F-female* * Applicable to selected models only Routing

Line-speed (1000 Mbps) routing performance for packets > 256 byte DHCP server / DNS proxy NAT / PAT UPnP VPN pass-through SPI Firewall DMZ and port forwarding/translation Mixed bridged/routed port(s) for IPTV IGMP(v2/v3) snooping and proxy RTSP proxy for Video on Demand (VoD)

LAN interfaces

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

CATV*

Wavelength (typical)	1550 nm		
Optical return loss	min 45 dB		
RF passband	45-900 MHz		
RF output impedance	75 Ω		
F-Connector length	11 mm		
AGC optical input power	-9 0 dBm		
RF output level (AGC on) according to CENELEC-42	80 ± 2.5 dBµV 4% OMI / ch		
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	> 34		
MER QAM-256	> 36		
Remote enabling of CATV			

Remote monitoring:

CATV input signal (Calculated) RF output

Management and control

TR-069, TR-098/TR-181, TR-104 Genexis Automatic Provisioning System (GAPS) SNMP DHCP / TFTP CLI Fail-safe firmware upgrade End user management via web interface Reset button for factory default settings

Emissions and safety regulations

- CE approved, FCC on request Safety: • IEC EN 60950 or IEC EN 62368-1
- Laser safety:
- IEC EN 60825-1: Class 1 laser Emissions & Immunity:
- EN 55032/CISPR 32:2008, Class B
- EN 55024
- RoHS/WEEE marking:
- · Compliant with 2011/65/EU

Status LEDs

Power	Ċ
Fiber uplink status/activity	<>
CATV status*	Q

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

Genexis FiberTwist P3000-Series product models

Model	Туре	WAN (Mbps)	LAN interface	Wavelength		
				Tx	Rx	CATV
FiberTwist P3410	Network termination with router functionality	1000/100	4x	1310 nm	1490 nm & 1550 nm	-
FiberTwist P3411	Network termination with router functionality	1000/100	4x	1310 nm	1490 nm	-
FiberTwist P3420	Network termination with router functionality	1000/100	4x	1310 nm	1490 nm	1550 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.

