

FiberTwist P3000-Series

Compact network demarcation
with routing functionality



The FiberTwist P3000-Series provides 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 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.

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 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)
- » Optional integrated CATV receiver
- » Seamless interoperability with large variety of In-Home devices
- » Wall junction box compatible

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

FiberTwist P3000-Series

General specifications

- » Dimensions (H x W x D) 110x110x46 mm
- » Weight approx. 210 g
- » Power supply voltage 12 Vdc ± 5%
- » Power consumption with CATV * max. 5.1 W
max. 6.5 W
- » Operating conditions 0 - 40 °C
- » Storage conditions 0 - 70 °C

WAN interface

- » Tx wavelength 1310 nm
- » Rx wavelength 1490/1550 nm **
- » Optical output range -9 ... -3 dBm
- » Optical input range -23 ... -3 dBm
- » 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

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 interface(s)

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

CATV *

- » Wavelength 1550 nm
- » Optical input range -8 ... 0 dBm
- » RF output impedance 75 Ω
- » RF flatness ±1 dB
- » Output return loss 14 dB
- » RF output level (AGC) 80 ± 1 dBμV
- » AGC working range -8 ... 0 dBm
- » RF frequency range 47 - 875 MHz
- » Slope / tilt 2 ... 5 dB
- » CNR min 45 dB @ -8 dBm
- » CSO / CTB max -55 dBc
- » Spurious to carrier max -55 dBc
- » Remote enabling of CATV
- » Remote monitoring:
 - CATV input signal
 - (Calculated) RF output

User interfaces

- 1 x Unlock button
- 1 x Reset button
- 1 x LED dimming button
- 4 x LAN interface
- 1 x Power connector
- 1 x CATV output coaxial F-female *




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

Emission and safety regulations

- » CE approved, FCC on request
- » Safety:
 - IEC EN 60950
 - IEC EN 60825-1:2001-08
- » Laser safety:
 - IEC EN 60825-1: Class 1 laser
- » Emissions & Immunity:
 - EN 55022/CISPR 22:2008, Class B
 - EN 55024
- » RoHS/WEEE marking:
 - Compliant with 2002/95/EC

Status LEDs

-  Power
-  Fiber uplink status/activity
-  CATV *

* Applicable to selected models only

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

FiberTwist P3000-Series product models

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