





Genexis FiberTwist

P6000-Series Point-to-Point (PtP)

The all-in-one fiber gateway



From our Connected Home product line, we present the FiberTwist P6000-Series. It is our all-in-one fiber gateway. Perfect for homes and apartments where the fiber is terminated in the living area.

Featuring Wi-Fi 6 (5400 Mbps), Wi-Fi EasyMesh[™], 4 LAN ports, 2 voice ports and optional CATV. Allowing you to turn a fiber connection into a fiber experience.

Its true Do-It-Yourself mechanism allows the end-users to install the gateway directly to the fiber by twisting it onto the fiber termination unit. No more expensive installers needed!

The FiberTwist 6000-Series is designed for both Point-to-Point networks as well as GPON networks (see G6000-Series GPON datasheet) and is compatible with all FiberTwist FTUs and brackets.

Key features

- · All-in-one fiber gateway
- · Both Point-to-Point as GPON (see G6000 GPON datasheet)
- $\boldsymbol{\cdot}$ Compatible with all FiberTwist FTUs
- · Easy installation and set-up
- · EasyTouch Pairing with selected Genexis extenders
- \cdot True Do-It-Yourself mechanism
- · 802.11ax (Wi-Fi 6)
- Wi-Fi EasyMesh™
- · 5GHz (4x4) and 2.4GHz (2x2) radio design
- · Analogue telephony support
- · Support for cable Set-Top Box (optional)
- · Genexis CloudSight compatible

One device for a complete fiber experience

The FiberTwist product line now includes an all-in-one active unit. This means it is not necassary anymore to add an extra device (e.g., Residential Gateway) or include a cable infrastructure in homes where space is limited.

Point-to-Point, GPON, voice and/or CATV? The FiberTwist 6000-Series covers all possible scenarios, it is up to you to select the desired model.

All possible models come with the latest Wi-Fi 6 technologies, providing the end-user with quality WiFi at all time. In other words, end-users can now get the full fiber exerpience from one single device.

If there is a need to extend the WiFi coverage in the home, the FiberTwist P6000-Series can be extended with an additional extender supporting the Wi-Fi EasyMesh[™] standard (e.g., see Pulse EX600 datasheet).

Product features and specifications

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> 34

> 36

Genexis FiberTwist P6000-Series (PtP)

Power consumption (EU-CoC-BBE)

P6414 & P6416 8.7 W Idle Mode

10.7 W On Mode 10.2 W Idle Mode

P6426 10.2 W Idle Mod

12.4 W On Mode

Fiber (WAN) interface

Optics compliant with 1000BASE-BX20-U

Tx wavelength 1310 nm
Rx wavelength 1490 nm
Optical input range -23 ... -3 dBm

SC/APC connector

LAN interface

4x 10/100/1000 Base-T Ethernet RJ45 ports

WLAN interface

2x2 MU-MIMO 802.11ax 2.4 GHz WiFi 4x4 MU-MIMO 802.11ax 5 GHz WiFi

User interfaces

Power connector

Power switch Reset button

WPS button

RGB status LED

Device status LEDs for Uplink, Internet, Telephony, WiFi and CATV (optional)

End-user web based GUI

Voice interface

2x FXS RJ11 ports

USB interface

1x USB 2.0 port

Wireless features

Wi-Fi MultiMedia (WMM) Wi-Fi Protected Setup (WPS)

Wi-Fi Security (WPA2 and WPA3)

Wi-Fi EasyMesh™ R2 DFS and Radar Detection

Multiple SSID and hidden SSID

Guest network SSID

Gateway features

NAT/PAT, DHCP, DNS

NTP, RTSP

Stateful Packet Inspection Firewall (SPIF)

DMZ, uPnP, Port forwarding

Ethernet features

IPv4 and IPv6 dual IP stack
VLAN (un)tagging, Q-in-Q, QoS

PPPoE, L2TP, IGMPv3

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

Management and control

SNMP

TR-069, TR369

TR-181, TR-104 data models Command Line Interface (CLI)

WebGUI

Genexis EasyWiFi App Genexis CloudSight

Fail-safe firmware upgrade

CATV interface*

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 ... o dBm RF output level (AGC on) $80 \pm 2.5 \, dB\mu V$ according to CENELEC-42 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

Remote enabling of CATV

Regulatory compliance

MER QAM-64

MER QAM-256

Radio Equipment Directive 2014/53/EU

Energy Related Products Directive 2009/125

EC

CE Safety Directive 2014/35/EU

RoHS and REACH Directive 2011/65/EU

ITU-T K.21 standard compliancy

Genexis FiberTwist P6000-Series product models

Model	AON WAN (Mbps)	LAN	WLAN 2x2 2.4 GHz	WLAN 4x4 5.0 GHz	FXS	USB	Wavelength		
							Тх	Rx	CATV
FiberTwist P6414	1000	4x	11ax	11ax	2x	1x	1310 nm	1490 nm	-
FiberTwist P6416	1000	4x	11ax	11ax	2x	1×	1310 nm	1490 & 1550 nm	-
FiberTwist P6426	1000	4x	11ax	11ax	2x	1×	1310 nm	1490 nm	Yes

Note

^{*} Applicable to selected models only

⁻ FiberTwist P6414 is available upon request, please contact your sales representative

⁻ 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.