



Genexis FiberBox

G2110-2.5G (GPON)

Stand-alone network demarcation



Providing Gigabit fiber connectivity to any desired location in the home is one of today's major challenges. Furthermore, the FTTH landscape is undergoing changes with more areas turning into brownfield.

The FiberBox offers an ideal solution to accommodate these transitions. It is a compact device and is designed for an easy and

fast deployment in your existing network. Furthermore, the FiberBox is equipped with TrueTalk™, which offers seamless interoperability between any OLT.

Genexis provides future-proof solutions to adapt to the changing landscape. The FiberBox ensures reliable and efficient network connectivity within a brownfield scenario.

Key features

- Stand-alone network demarcation
- Wall-mount or desktop installation
- GPON WAN-port with self closing dust protection
- 2.5GE LAN-port
- TrueTalk™ PON autosensing
- Made in Vietnam

Sustainability features

- Power consumption compliant to EU-CoC-BBE
- Housing made of 80% recycled plastics
- Halogen free PCB
- Minimized size to reduce materials
- Surge protection against lightning strikes

TrueTalk™ PON autosensing

TrueTalk is the ultimate choice for seamless ONT - OLT connectivity. As an open and independent vendor, Genexis empowers your network with reliability and freedom. No more software complexities with our unified version for all the main OLTs, simplifying installation and future network choices. Thanks to TrueTalk, the FiberBox automatically detects which OLT it is connected to and adapts accordingly.

With over 150 network deployments worldwide, our proven interop ensures uninterrupted communication, making Genexis a trusted partner in the industry.

Gain peace of mind knowing that our in-house PON interop labs, strategically located in Europe, rigorously test and validate PON interoperability. With TrueTalk, your choice in ONT will not limit your future OLT choices.



Product features and specifications

Genexis FiberBox G2110-2.5G (GPON)

Environment

Dimensions (H x W x D)	114x114x30 mm
Weight	153 gr
Power supply voltage	12 Vdc ± 5%
Operating temperature	0 - 40 °C
Storage temperature	0 - 70 °C

Power consumption

FiberBox G2110-2.5G	2.8 W Idle Mode
	2.8 W On Mode

Compliant to EU-CoC-BBE

User interfaces

- 1x GPON WAN interface
- 1x LAN interface
- 1x Power connector
- 1x Power button
- 1x Reset button

LAN interface(s)

Compliant with IEEE 802.3 (2500/1000/100Base-T)

LED indicators for link and activity

WAN interface

- 1x GPON interface
- Compliant with ITU-T G.984.1/2/3/5
- Compliant with ITU-T G.988
- SC/APC connector
- Class B+ optics
- TX (upstream) power +0.5 ... +5 dBm
- RX (downstream) power -8 ... -28 dBm
- TX wavelength 1310 nm
- RX wavelength 1490 nm
- TRx allows co-existence with, CATV, XGS-PON, XG-PON and 25GS-PON
- Interoperable with the major OLT brands in triple-play configurations
- 128 GEM ports (GPON Encapsulation Method)
- 32 T-CONT (Transmission Containers)

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

Surge protection


- Compliant with ITU-T K.21 basic level

Interoperable OLTs - TrueTalk

Genexis has been an independent PON ONT vendor since 2013. All Genexis ONTs are interoperable and have been field deployed with major OLT brands active in the European and North American markets. Genexis will provide its full support to enable a successful interop. Please ask your sales representative for more information.

Status LEDs

Power 

Fiber uplink status 

LAN 

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Model	Type	1GE LAN	2.5GE LAN	Remark
FiberBox G2110-2.5G	Layer-2 GPON ONT	-	1x	-

All models have wavelength blockers.

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.