



## Genexis FiberBox

### P2110 (PtP)

Compact network demarcation



A point-to-point (PtP) network is ideal for critical applications and high-demanding environments. It offers high bandwidth, low latency, and reliable secure performance. The Genexis FiberBox P2110 is the perfect solution for a fast and dedicated wireless connection. A small and elegant device that easily connects via a patch cable.

Designed for smooth integration, the FiberBox P2110 works with universal FTUs, allowing existing infrastructure to be reused. This enables efficient network expansion without the need for additional investments. Together with extensive management capabilities, the FiberBox Series ensures an optimal and reliable performance.

#### Key features

- Compact, fully managed Point-to-Point network demarcation
- No need to replace existing universal FTUs
- One 1 Gigabit LAN port
- Flexible management via i.a. TR-069 and CloudSight
- ITU-T K.21 Basic level (Surge Protection)
- Halogen-free PCB
- 80% recycled plastics

#### A perfect Match for existing deployment scenarios

The Genexis FiberBox Series is designed for effortless integration across a wide range of deployment scenarios, whether in single-dwelling units or complex multi-dwelling environments. With its compact design of 114×114×30 mm, the FiberBox blends naturally into any setting, from living rooms and metering cabinets to basements and utility spaces. Thanks to its compatibility with universal 3rd-party FTUs, existing deployments can easily be reused while significantly saving costs.

# Product features and specifications



## Genesis FiberBox P2110 (PtP)

### General specifications

Dimensions (H x W x D)	114x114x30 mm
Weight	TBD
Power supply voltage	12 Vdc ± 5%
Operating temperature	0 - 40 °C
Operating humidity (non-condensing)	5% ~ 95%
Storage temperature	-25 - 55 °C
Storage humidity (non-condensing)	10% ~ 100%
Flame retardants	Halogen free

### Power consumption (EU-CoC-BBE)

Model	Ready Mode	On Mode
P2110	TBD	TBD

### Fiber (WAN) interface

Optics compliant with 1000BASE-BX20U	
TX (upstream) power	-4 ... 0 dBm
RX sensitivity	-27 dBm
TX wavelength (typical)	1310 nm
RX wavelength (typical)	1490 nm
Single mode fiber	ITU-T G.657.A2
Optical connector	SC/APC
Optical Range	Up to 20km
Digital Diagnostic Monitoring (DDM)	
Configurable optical blackout (for OTDR)	

### LAN interface(s)

GE: Compliant with 10/100/1000 BASE-T  
LED indicators for speed and activity  
IEEE802.3az Energy Efficient Ethernet (EEE)

### User interfaces

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

### Layer 2 features

Jumbo up to 9K supported on WAN and LAN  
Non-blocking switching performance  
Up to 8K MAC addresses  
Automatic learning and aging  
IEEE 802.1Q VLAN support for 4096 VLANs  
VLAN classification and retagging (VLAN mapping)  
Port-based VLANs  
IEEE 802.1ad QinQ VLAN tagging  
Port Trunking and Monitoring/Mirroring  
Layer 2 loop prevention

### IGMP

IGMP/MLD (v2/v3) snooping and proxy  
Configurable parameters for e.g. robustness, fast leave and snooping behavior

### Quality of Service (QoS)

8 QoS traffic classes  
Port based QoS  
IEEE 802.1p tagged frames  
IPv4 QoS Type of Service (ToS)  
IPv4 QoS Differentiated Services (DS)  
IPv6 QoS Traffic Class  
Strict, weighted, or mixed mode per port

### Management

DHCP/TFTP, HTTP  
TR-069, TR-369, TR-181  
CLI  
CloudSight  
Ethernet OAM  
GUI

### Emissions and safety regulations

CE approved  
Safety:  

- IEC EN 62368-1
- BS EN 62368-1

 Laser safety:  

- IEC 60825-1: Class 1 laser

 Emissions & Immunity:  

- EN 55032/CISPR 32, Class B
- EN 55035




 RoHS/WEEE marking:  

- Compliant with 2011/65/EU

 Surge protection  

- Compliant with ITU-T K.21 basic level

### Status LEDs

Power/Alarm   
 Fiber uplink status   
 LAN 

## Genesis FiberBox P2100-Series product models

Model	Type	WAN (Mbps)	1GE LAN	2.5GE LAN	Wavelength		
					TX	RX	CATV (1550 nm)
FiberBox P2110	Layer-2 PtP NT	1000	1x	-	1310 nm	1490 nm	-

Note: More features are available and not listed in this document. Not every listed feature may be included in the shipping product.

Genesis reserves the right to make changes of technical specifications, housing or design without prior notice.