FIBRAIN FB-TG2

XGS-GPON ONT
1x10/100/1000/2500Mbps Ethernet
1x100/1000/2500/10000Mbps Ethernet

- Optical WAN interface in XGS-PON technology

- 1x 10/100/1000/2500Mbps LAN interface with Auto MDI-MDIX

- 1x 100/1000/2500/10000Mbps LAN interface with Auto MDI-MDIX

- Works in SFU (Layer 2) mode

- Powered from 12V AC/DC wall adapter

- Managed via Web/XML/OMCI

- Operates in the temperature range of 0 ~ 60 degrees Celsius

- Compatible with OLTs of all most popular manufacturers

Device description

FB-TG2 is an innovative product designed for operators of fiber optic broadband networks. Designed from the ground up with end users in mind, it provides them with 2 Ethernet ports, one of which offers speeds of 10/100/1000/2500Mbps, the other one enables operation with a bandwidth of 100/1000/2500/10000Mbps.

The device uses a single optical fiber to connect to the central device of the Internet provider. User connects to the device using a cat.5 (or higher) network cable. Device is powered by an external 12V/1.5A power adapter.

WAN interface is fully compliant with the ITU-T G988 standard. Hardware functionalities combined with the software installed in the device enable network traffic control at the level of the L2 layer (VLAN, QoS, IGMP Multicast).

Management

The device can be managed from the OLT device using the OMCI stack. An alternative method is configuration via an XML file (provisioning). The third method is configuration using the web interface. Such numerous configuration methods ensure seamless and quick integration with the network operator's systems and accelerate and facilitate the process of installing the device in the target location.

Software features

XGS-GPON
- ITU-T G.988
- AES Encryption of US/DS traffic Forward Error Correction (FEC)

QoS
- Bandwidth limitation for incoming and outgoing traffic
- Packet classification based on COS, DSCP

Multicast
- IGMP Snooping

Misc
- IP HOST (management)
- 802.1q
- DHCP Client

L2
- IEEE 802.1Q & IEEE 802.1P
- VLAN Translation
- VLAN Filter
- Access | Trunk | Native port
- Storm-Control
- QinQ (Transparent and End-To-End)

Hardware specification

Flash memory	128MB	**Storage temperatures**	-40~70ºC
WAN interface	1 x XGS-PON Port (SC/APC, BOSA) N1 Rx czułość -29dBm Rx przeciążenie -8dBm	**Humidity**	5~95 % (non-condensing)
		Power	12V/1A AC/DC power supply
WAN speed	XGS-PON: 9.953Gbps/9.953Gbps (DS/US)		
LAN interface	1x 10/100/1000/2500BASE-T (RJ-45) 1x 100/1000/2500/10000BASE-T (RJ-45) Auto-speed detection, Autodetekcja MDI/ MDI-X	**Power consumption**	Up to 10W
LED		**Other interfaces**	Buttons: ON/OFF Reset
Operation temperatures	POWER, PON, LOS, LAN1-LAN2 0 ~ 60ºC	**Dimensions (W x D x H)**	170 mm x 41 mm x 125 mm