

FOBOS

OPTICAL MULTIPLEXER

4xE1 G.703 2048kbit/s + 100 Mbit/s Ethernet



FOBOS

- Connection of LAN Ethernet 10/100 Mbit/s + 4 E1 G.703 2048kbit/s lines through a fibre optical link
- Built-in 4-port Ethernet switch with an array of 1000 MAC addresses
- IEEE 802.1q support. Possibility of defining up to 15 VLAN networks (full range VID) in order to create independent transmission channels
- Possibility of limiting bandwidth of the Ethernet ports
- SNMP, WWW, SMTP, TELNET, SNTP management
- Low power consumption (< 6 Watts)
- BTNET Network Management System attached

FOBOS is a high performance optical line transmission equipment, combines four ITU-T G.703 compliant standard electrical E1 2048 kbit/s lines plus 100/10 Mbit/s Ethernet signal into an optical data stream for transport over fiber optic. Several transmitter options are available (including WDM version and with SFP module).

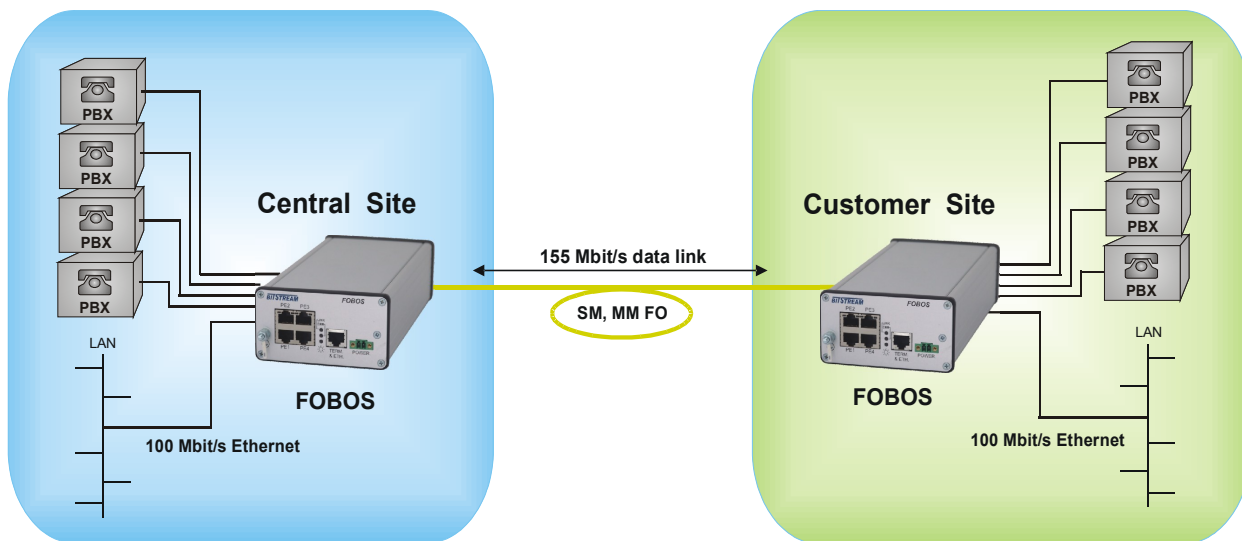
FOBOS is equipped with advanced built-in Ethernet switch with “flow control” and “autocrossover” mechanisms. Each ethernet port supports programmable rate limiting from 64kbit/s to 100Mbit/s and port priority setting.

Ethernet transmission channel may be divided into independent transmission channels through the virtual VLAN mechanism. Up to 16 independent VLANs are supported (full range VID: 0-4095). VLAN tag/untag options, per-port basis. Embedded HTTP server, TELNET server and SNMP agent allows free configuration of the device performance by standard Web browser and continuous monitoring from any management platforms equipped with SNMP client. In addition, built-in SMTP service daemon allows to notify the operator in case of system failure. Device management is carried out out-of-band using dedicated Ethernet port.

Remote software update is supported to allow further functionality improving.

FOBOS multiplexer is powered from DC voltage from 12 to 60V power supply or from an external adapter in case of AC voltage. Total power consumption does not exceed 6W.

A standard application is presented in the drawing below.



PARAMETERS

Multiplexing

- Number of E1 channels - 4
- Throughput Ethernet data stream – 100 Mbit/s

Management

- SNMP
- HTTP protocol and web browser as a management application
- SMTP -send e-mail message in case of failure
- Out of band, by dedicated Ethernet port
- Through the terminal port RJ-45(9600,N,8,1) – Preliminary configuration

Optical ports

- 155Mbit/s transmission speed
- SC/PC connectors
- SM, MM, WDM, 1310nm, 1550nm, 665nm (POF)
- Fibre type 9/125um, 62,5 / 125um, 980/1000um
- Ranges depending on the type of optical port
15km, 50km, 120km (1550nm), 20km WDM, 40km WDM, 60km WDM, 100km WDM, 300m (POF)

OR

- SFP module

Ethernet ports

- Baud rate 100/10Mbit/s
- Flow control function
- Autocrossover function "MDI, MDI-X
- Support for VLAN, IEEE 802.1q
- Connection state signalling
- 4xRJ-45 connector

<p>Dimension</p> <ul style="list-style-type: none"> • Housing 103x230x53mm • Weight < 1kg 	<p>Power</p> <ul style="list-style-type: none"> • Supply voltage range 12 to 60V DC • External power supply included 230VAC/48VDC • Up to 6W power consumption
<p>Line interface 2048 kbit/s</p> <ul style="list-style-type: none"> • ITU-T G.703 • 2048 kbit/s \pm 50 ppm binary throughput • 120 Ohm E1 impedance • Line code HDB-3 • Types of connectors: RJ-45 	<p>Environmental Parameters</p> <ul style="list-style-type: none"> • Ambient temperature + 5 - + 40°C • Relative air humidity 80% in temperature + 20°C

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