

# TELESTO

## Optical multiplexer of 4 x U BRI ISDN + 100 Mbit/s Ethernet

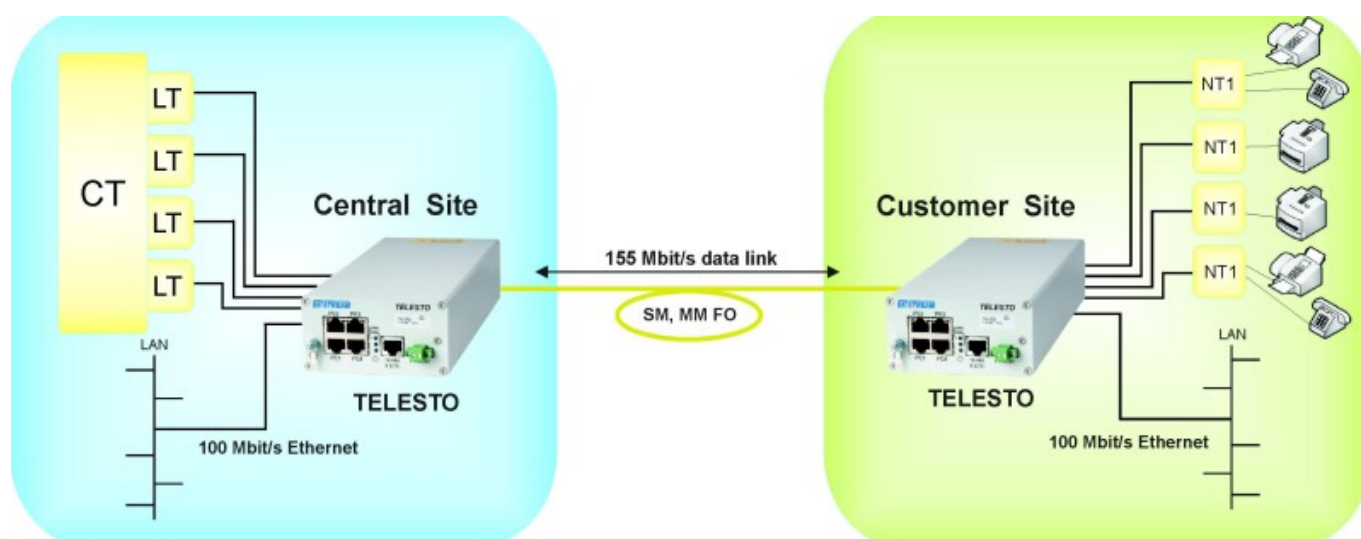


### TELESTO

- Connection of LAN Ethernet 10/100 Mbit/s + 4 ISDN BRI ports (2B1Q) through a fibre optical link
- Built-in 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 to restrict the packet rate on Ethernet ports
- Management: SNMP, WWW, SMTP, telnet, SNTP
- Local and remote software update - both firmware and GUI
- Built in or SFP interface: 1310, 1550, WDM, CWDM

TELESTO is designed to connect ISDN and Ethernet LAN telecommunication networks by means of fibre optic cables up to 120km. The device enables sending 1 to 4 ISDN (2B+D) BRI channels and connecting LAN networks in Ethernet technology for the rates of 10 or 100Mbit/s.

A standard application is presented in the drawing below.



TELESTO is equipped with a four-port Ethernet switch. It supports features like "Flow control, VLAN, " autocrossover "allowing to connect users without additional hardware. Each ethernet port supports programmable rate limiting from 64kbit/s to 100Mbit/s.

The available Ethernet transmission channel may be divided into fifteen independent transmission channels through the VLAN mechanism. 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.

TELESTO multiplexer is powered from DC voltage from 40 to 60 V power supply or from an external adapter supplied with the device in the case of AC voltage. Total power consumption does not exceed 10 Watts.

PARAMETERS	
<b>Multiplexing</b> <ul style="list-style-type: none"> <li>• Number of U channels - 4</li> <li>• Throughput Ethernet data stream – 100 Mbit/s</li> </ul>	<b>Management</b> <ul style="list-style-type: none"> <li>• SNMP</li> <li>• HTTP protocol and web browser as a management application</li> <li>• SMTP - send e-mail message in case of failure</li> <li>• Out of band, by dedicated Ethernet port</li> <li>• Through the terminal port RJ-45(9600,N,8,1) – Preliminary configuration</li> </ul>
<b>Line port</b> <ul style="list-style-type: none"> <li>• Compatible with: ANSI T1.601-1992 2B1Q U, ETSI ETR 080</li> <li>• RJ-45 connector</li> <li>• BRI - 2B+D, 160 kbps full duplex, 5km reach</li> <li>• Available types of joints (LT, NT1)</li> </ul>	<b>Ethernet ports</b> <ul style="list-style-type: none"> <li>• Baud rate 100/10Mbit/s</li> <li>• Flow control function</li> <li>• Autocrossover function "MDI, MDI-X</li> <li>• Support for VLAN, IEEE 802.1q</li> <li>• Connection state signalling</li> <li>• 4xRJ-45 connector</li> </ul>

<b>Optical port</b> <ul style="list-style-type: none"><li>• Wavelength of 1310 nm, 1550 nm, 1310/1550nm WDM, CWDM *</li><li>• Type of fibre 9/125um, 62,5/125um</li><li>• SC connector</li><li>• <u>Reach depending on the type of optical port:</u> 15km, 60km, 120km (1550nm)</li></ul>	<b>Optical port SFP</b> <ul style="list-style-type: none"><li>• SM, MM, WDM, 1310nm, 1550nm</li><li>• Type of fibre 9/125um, 62,5/125um</li><li>• LC connector (SFP)</li></ul>
<b>Dimension</b> <ul style="list-style-type: none"><li>• Housing 103x230x53mm or 483x170x44mm (1U) – 19" version</li><li>• Weight to 1,7 kg</li></ul>	<b>Power</b> <ul style="list-style-type: none"><li>• Supply voltage range 40 to 60V DC</li><li>• External power supply included 230VAC/48VDC</li><li>• Consumption 10W power</li></ul>

\*Versions available on request

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