

FIBER MULTIPLEXER

4 x E1 G.703 over Fiber Multiplexer



4E1 to Fiber multiplexer

ST-2103-FA

Overview

Spiktel offers 4 E1 + Ethernet - Optical Multiplexer is a high performance optical line transmission equipment, combines 4, ITU-T G.703 compliant standard electrical E1s plus 100 BaseT ethernet signal into an optical data stream for transport over fiber optic pairs. Several transmitter options for different cable types and wave-lengths are available. 1+1 optical path redundancy is offered and available as an option.

All media converters are available with either multi-mode or single-mode optical transceivers and with connectors for SC, ST, or FC. In single mode they are available in up to 120 km versions reach, which will provide the ability to transmit and receive data using only a single optical fiber pair.

Spiktel 2103-FA allows network engineers to get greater functionality through advanced SNMP features, the network administrator can manage any converter module from anywhere on the network, detect any link loss and maintain each loop.

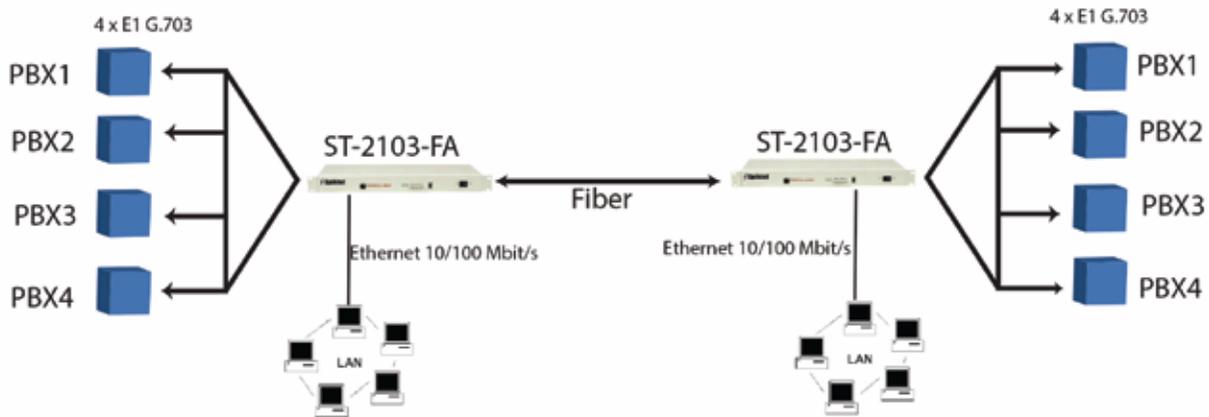
Features

- * Can provide up to 4 E1 channels transmission transparently, and 1 10/100M Ethernet data channel.
- * Compact design (1U - 44mm high) that performs E1 and Ethernet channel multiplexing & de-multiplexing to an optical output
- * Provide 1 Ethernet interface (support VLAN, flow control, and self- negotiation; full/semi duplex, 10M/100M optional)
- * Provides visible and audible alarm indication
- * Local device monitor remote device (2 row LEDs, upper indicate local status, lower indicate remote status)
- * Orderwire (EOW) channel for end to end installation and maintenance
- * Power supply option: AC220V, DC-48V, DC+24V (optional).
- * Provide function of 4 E1 remote loop, fiber local loop, and 1 interface of phone.
- * Two fiber two direction and single fiber two direction (optional).
- * Match telecom operation requirement, MTBF above 70,000 hours.
- * Support both DC and AC power supply.
- * ProvideS SNMP function.

Specifications

E1 interface parameter:	Channel capacity: 4 Channels Bit Rate: 2.048 Mb/s \pm 50 ppm Line Code: HDB3 Line Impedance: 120 Ohm / 75 Ohm Connector: RJ-45 or BNC Pulse Shape: ITU-T G.703 Jitter Performance: ITU-T G.823
Ethernet interface:	Interface Rate: 10/100Mbps Interface character: match IEEE802.3, IEEE802.1 Q Connector: RJ45
Optical interface parameter:	Optical wavelength: 850/1310nm for multi-mode fiber, 1310/1550nm for single-mode fiber. Optiical interface: SC/FC/ST (Optional) Transceiver module: > -6dBm Optical receiver sensitivity: <-36(BER<10) Receive range: >-30dB Transmission distance: multi-mode 2 Km, single-mode 20/40/ 80 / 120 Km, single fiber WDM versions available
Power:	DC: -48V (-36 to -72V); +24 V (Optional) AC: 90 to 260 VAC ; 47 ~ 63Hz Power Interface: DC power terminal/AC socket Power Consumption: 10 W maximum
Working environment:	Operating temperature: 0 to 50°C Storage temperature: -20 to +70°C Relative humidity: 5% to 90% (25°C no condense)

Application Diagram



Ordering Information

Product	Descriptions
2103-FA/ETH-MM	4xE1 and 10/100 Ethernet signal over multi-mode fiber 2km SC/ST
2103-FA/ETH-S20	4xE1 and 10/100 Ethernet signal over single-mode fiber 20km SC/ST
2103-FA/ETH-S40	4xE1 and 10/100 Ethernet signal over single-mode fiber 40km SC/ST
2103-FA/ETH-S80	4xE1 and 10/100 Ethernet signal over single-mode fiber 80km SC/ST
2103-FA/ETH-S120	4xE1 and 10/100 Ethernet signal over single-mode fiber 120km SC/ST

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* Specs and Pictures of the product can be revised according to R&D

* Products design in UK.

www.spiktel.co.uk

www.spiktel.com

Enquiry: sales@spiktel.com

Corporate Office

UK

SPIKTEL TECHNOLOGIES LLC.
179B Norwood Road Southall Middlesex UK UB2 4JD
Tel:+44-0208-8432233, Fax: +44-0208-5742244

Branches

HongKong

SPIKTEL INTERNATIONAL CO. LTD.
801, 8/F, Opulent Bldg.,
402-406 Hennessy Rd., Wanchai, Hong Kong
Tel: +852- 2893 8228 Fax: +852- 2893 1822

India

SPIKTEL TECHNOLOGIES PVT. LTD.
F-23, Roshanara Complex, Roshanara Road,
Delhi-110007 Tel:- +91-11-23824050, 64704050

Dubai

SPIKTEL TECHNOLOGIES MEA
New Al Kuwaitat, Street 8, Villa 2B, AL AIN , UAE
P.O. Box. 13787, Tel/Fax: +9713-03-7377053