

INTERFACE CONVERTERS

8 x E1 Ethernet 100BaseFx (fiber port) converter



Ethernet interface

ST-2915-FA

Overview

ST-2915-FA-E1 Ethernet converter provides easy conversion from ITU-T G.703 E1 channel to Ethernet interface, which in this case is fiber type. The E1 is transparent and in full rate, which can support the E1 unframed mode, including fractional E1 per request.

A pair of 2915-FA offer a cost effective solution for using existing E1 leased lines for transparent Ethernet service, and in case Ethernet interface is FX type and connected to remote locations with fiber distance more than 100 km.

Local management of the 2915-FA Converter is provided via DIP switches. Front panel LEDs monitor the G.703 link, Ethernet LAN and serial ports for status and Loss of Sync. AN-8E1-ETH-FIB compact G.703 Access Converter provides E1/2.048 Mbps Network Termination as well as serial or Ethernet LAN interface conversion in a standalone or rack mount package. AN-8E1-ETH-FIB E1 Ethernet converter terminates the G.703 Telco interface and converts the data for transmission to a user-oriented fiber interface.

The 2915-FA inverse multiplexers transmit up 16 Mbps channel over multiple E1 links.

They bridge the gap between E1 and E3, allowing bridges and routers to operate at their fastest rates. The 2915-FA have a built-in 10/100 Ethernet bridge with VLAN support for LAN-to-LAN applications over 4 E1 links. The 2915-FA fully meets all of the E1 specifications including G.703, G.704, G.706, G.732 and G.823. The unit features diagnostic capabilities for performing remote loopback tests.

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Features

- * Based on self -Copyright IC.
- * Semi/full duplex self adapt, support VLAN.
- * Provide 2 clock types: E1 master clock, E1 line clock.
- * Provide 3 loop functions: local loop, to remote loop, order remote loop.
- * Have pseudo random code test function, easy the installation and maintenance.
- * Support 2 impedances: 75 Ohm unbalance and 120 Ohm balance.
- * Have Ethernet monitor self-reset function, equipment will not dead.
- * Provide detecting realtime Ethernet communication status.
- * Compliant with IEEE 802.3 100Base-FX Standards at fiber port;
- * LED Indicators: POWER, FX LINK/ACT, 100, TP LINK/ACT, FDX/COL.
- * Single mode / Multimode or WDM single strand fiber.
- * 8 E1 channels has less than 10 ms time-delay, CRC alarm limitation can auto insulate bad-quality transmit channel by configuration, and is single direction insulation.
- * When one direction error rate over limitation, cut only this direction, the other direction not affected;
- * Power supply option: AC220V, DC-48V. The positive and negative terminal can be exchanged for DC-48V, easy for installation and maintenance.
- * Support reset remote system from local system.
- * E1 Ethernet converter with FX fiber type ports and 8E1

Specifications

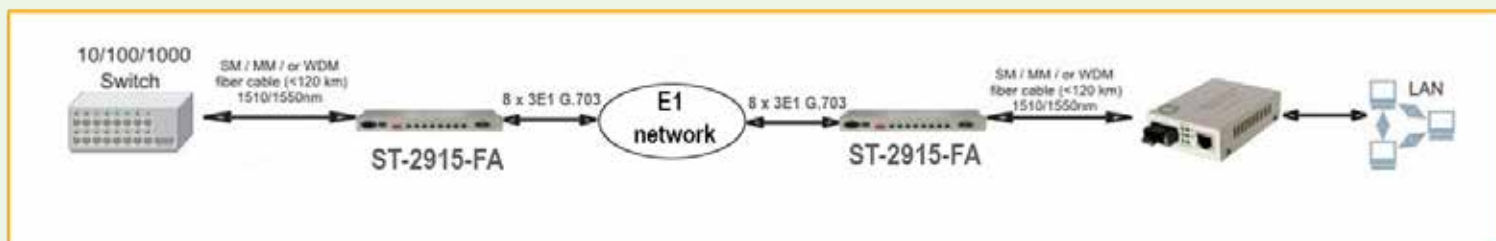
E1 interface parameter	Channel capacity: 1 Channels Bit Rate: 2.048 Mb/s \pm 50 ppt Line Code: HDB3 Line Impedance: 120 Ohm / 75 Ohm Connector: RJ-45 or BNC Pulse Shape: ITU-T G.703 Jitter Performance: ITU-T G.823 Clocking options: inter-clock, line-clock
Fiber Ethernet interface parameters:	Multi-mode: 1310nm; Single-mode: 1310nm
Fiber cable(m):	8.3/125, 8.7/125, 9/125 or 10/125 single-mode Maximum distance: Multimode;2km(Default), Single-mode;20km/(Default) 40km/60km/80km/100km/120km MAC address capability: 4096

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Specifications

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: 8 W maximum
Working environment:	Operating temperature: -0°C ~50°C Storage temperature: -20°C ~70°C Humidity: 5% to 95%, (25°C no condense)

Typical applications:



Ordering Information

2915-FA-1	8 x E1 G.703 to Ethernet 10/100 Base-FX Converter 2Km SC Connector (Multimode)
2915-FA-2	8 x E1 G.703 to Ethernet 10/100 Base-FX Converter 2Km ST Connector (Multimode)
2915-FA/SM20	8 x E1 G.703 to Ethernet 10/100 Base-FX Converter 20Km SC/FC/ST Connector (Single Mode Dual fiber)
2915-FA/SM40	8 x E1 G.703 to Ethernet 10/100 Base-FX Converter 40Km SC/FC/ST Connector (Single Mode Dual fiber)
2915-FA/SM60	8 x E1 G.703 to Ethernet 10/100 Base-FX Converter 60Km SC/FC/ST Connector (Single Mode Dual fiber)
2915-FA/SM80	8 x E1 G.703 to Ethernet 10/100 Base-FX Converter 80Km SC/FC/ST Connector (Single Mode Dual fiber)
2915-FA/SM100	8 x E1 G.703 to Ethernet 10/100 Base-FX Converter 100Km SC/FC/ST Connector (Single Mode Dual fiber)
2915-FA/SM120	8 x E1 G.703 to Ethernet 10/100 Base-FX Converter 120Km SC/FC/ST Connector (Single Mode Dual fiber)
2915-FA/WDM20	8 x E1 G.703 to Ethernet 10/100 Base-FX Converter 20Km SC/FC/ST Connector (Single Mode Single fiber, WDM)
2915-FA/WDM40	8 x E1 G.703 to Ethernet 10/100 Base-FX Converter 40Km SC/FC/ST Connector (Single Mode Single fiber, WDM)
2915-FA/WDM60	8 x E1 G.703 to Ethernet 10/100 Base-FX Converter 60Km SC/FC/ST Connector (Single Mode Single fiber, WDM)

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

* Products design in UK.

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