Copper/Optical Ethernet to 4/8E1 Converter

1.Overview

F5-4511 Series F5-45/85XX Converter is a high performance, remote, self-learning 10/100Base-TX or 100/1000Base-FX to E1 protocol converter. This series of products are orientated in the broadband access system for its high-quality, high-stability and low price. This product can convert 100Base-FX fiber to 4/8/16 E1 line. It provides completed indicators to show the status and alarm messages of the E1 line and Optical port. It is widely used in LAN connecting, remote monitor and video broadcasting. Furthermore, it can be managed by the software Fi-View-PC.

The production has the features of setting E1 channels CRC error threshold and monitoring the E1 channel working status. If the CRC error rate in any E1 channel exceeds the threshold, the system will shut down this channel automatically, and reassign the data flow to valid E1 channels. Ethernet ports support 10/100M, full/half auto-negotiation and MDI/ MDIX auto crossover. E1 ports are compatible with 75Ω unbalanced and 120Ω balanced transmission lines.

2.Hardware Features

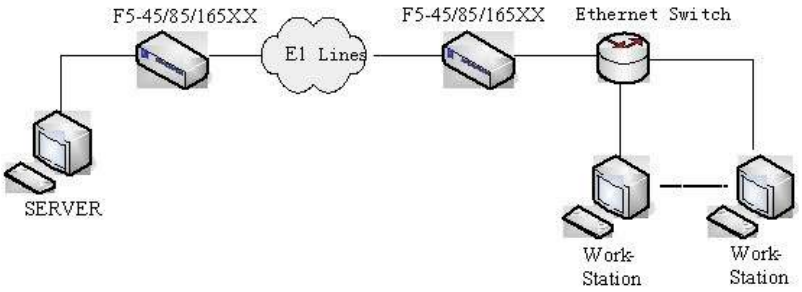
●4/8E1 channels carry 100/1000Base-FX and 10/100Base-Tλ Ethernet data
●Comply with ITU-T G.703, G.823 for E1 ports and IEEE802.3uλ for Ethernet ports
●Optical port supports 100/1000 Base-FX mode. Electricλ ports support 10/100Base-T mode
●Ethernet ports is in flow control and backλ pressure mode; support huge packet, up to 1916 bytes (inclusive); carrier sense based backpressure is selected
●64Mbits high-speed SDRAM inside used toλ cache
●Rearrange Ethernet packages in E1 channels to ensure data transferλ efficiency and stability
●Allow the delay time between any two channels upλ to 16ms
●For each E1 channel, the payload capability is up toλ 1.984Mbps
●Auto-detect the valid E1 channels and auto-balance the data flowλ among the valid E1 channels
●Provide CRC error threshold setting for eachλ E1 channel. If the CRC error rate of any E1 channel exceeds the threshold, the system will shut down this channel, and reassign the data flow to the valid E1 channels automatically
●Even if all the receive lines of E1 channels isλ shut down, the local alarm and management information can still be transferred in the transmission line. While the converter works with optical equipment, this functionality affords a convenient and efficient way to locate the fault.
●75Ω and 120Ω line impedance are optional for E1λ channels.
●Full LED on front panel provides comprehensive indication ofλ device working status
●Indicators can be selected to indicate local orλ remote status
●220VAC and -48VDC power supply are optionalλ
●Managed/λ unmanaged optional
●Provide SNMP, WEB and Console management for theλ standalone. Viewing and configuring local and remote device easily.

3. Software Features(optional)

●Supportλ Console and SNMP management, for Standalone and Chassis
●Show details ofλ system information, including chassis name, location information, IP address, start-up time, software and hardware version

●View & configure the working status of local chassis and remote standalone device, including E1 status, Optical status
●Support remote loop back function
●Reset the system or a single module via management software
●Reset chassis to factory default
●Support online firmware upgraded
●Show the detailed information of power supplies, including AC/DC type and working status
●Monitoring chassis inside temperature, fans status, and backboard power, and with alarms indication in software
●Provide MIB file, make it easy to be integrated into the third-party SNMP management software
●Adopt the centralized management style and the tree-view catalogue, which can manage many sets of chassis at the same time in one single window. Meantime, it's very easy and clear to manage all devices even if many chassis in one window.

4. Typical Application



5.Order Information

F5-4518-13-S042CA/D 1 optical port and 1 electric port Ethernet to 4 E1 converter, standalone, 220VAC/-48VDC power supply. Optical port: single mode, 40Km, SC/PC.
F5-4518-33-S042CA/D 1 optical port and 3 electric ports Ethernet to 4 E1 converter, standalone, 220VAC/-48VDC power supply. Optical port: single mode, 40Km, SC/PC.
F5-4518-S042C A/D 1 optical port Ethernet to 4 E1 converter, standalone, 220VAC/-48VDC power supply. Optical port: single mode, 40Km, SC/PC.
F5-4513A/D 1 electric port Ethernet to 4 E1 converter, standalone, 220VAC/-48VDC power supply
F5-4533A/D 3 electric ports Ethernet to 4 E1 converter, standalone, 220VAC/-48VDC power supply
F5-4543A/D 4 electric ports Ethernet to 4 E1 converter, standalone, 220VAC/-48VDC power supply
F5-8518-13-S042CA/D 1 optical port and 1 electric port Ethernet to 8 E1 converter, standalone, 220VAC/-48VDC power supply. Optical port: single mode, 40Km, SC/PC.
F5-8518-33-S042CA/D 1 optical port and 3 electric ports Ethernet to 8 E1 converter, standalone, 220VAC/-48VDC power supply. Optical port: single mode, 40Km, SC/PC.
F5-8518-S042C A/D 1 optical port Ethernet to 8 E1 converter, standalone, 220VAC/-48VDC power supply. Optical port: single mode, 40Km, SC/PC.
F5-8513A/D 1 electric port Ethernet to 8 E1 converter, standalone, 220VAC/-48VDC power supply
F5-8533A/D 3 electric ports Ethernet to 8 E1 converter, standalone, 220VAC/-48VDC power supply
F5-8543A/D 4 electric ports Ethernet to 8 E1 converter, standalone, 220VAC/-48VDC power supply

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