

## INTERFACE CONVERTERS



## Framed E1 to Ethernet 10/100BaseT protocol converter

## Ethernet interface

## ST-2902-FA

### Overview

2902-FA Ethernet to E1 Interface Converter (also as 2902-FA Ethernet Bridge) is an Ethernet bridge of high performance, which accomplishes the converting between the 100M Ethernet port and the E1 port. As an extended device of the Ethernet, the 2902-FA Bridge realizes interconnection of two Ethernet by using the E1 channel provided by existing networks with low cost.

E1 interfaces conforming to ITU-T G.703 and G.704 proposals are provided at the end of WAN, supporting RJ45 and BNC connection modes. The E1 ports support both framing and un-framing architecture. The user can select an operating mode for the E1 interface according to the connected E1 environment.

This provides flexibility of network application. In the framing mode, the E1 interface provides a rate of  $N \times 64$  Kbps ( $N=1 \sim 31$ ). In the un-framing mode, the E1 channel provides a rate of 2.048Mbps and accomplishes transparent transmission.

If the 2902-FA Ethernet to E1 Bridge is used in the framing mode, the transmission clock can be either provided internally, i.e. using the main clocking timing mode (INT), or extracted from the E1 channel, i.e. using slave clock timing mode.

### Features

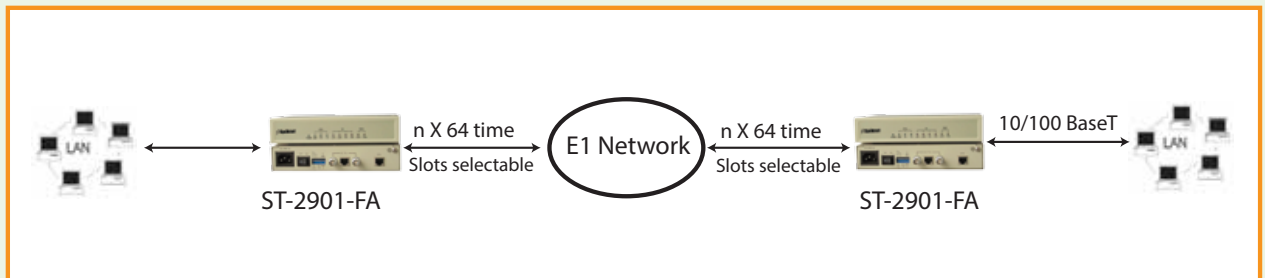
- \* Realizes monitoring of remote equipment from local equipment;
- \* Upper LED row indicate local status, lower row indicate remote status, easy to understand easy to use
- \* Based on self-copyright IC.
- \* Ethernet interface Semi/full duplex self adapt, support VLAN
- \* Ethernet interface support auto-mdix.
- \* 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.
- \* E1 can support rate  $N \times 64k$  ( $N=1$  to 32)
- \* Provide 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.
- \* Want to see it as SNMP managed modular platform in your 19' rack?

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## Specifications

<b>E1 interface parameter:</b>	Channel capacity: 1 Channels Interface Rate: n x 64Kbps to n x 32 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; G.704 Jitter Performance: ITU-T G.823 Clocking: internal-clock, line-clock
<b>Ethernet interface:</b>	Interface Rate: 10/100Mbps Duplex: half and full duplex self-adapt. Interface character: match IEEE802.3, IEEE802.1 Q(VLAN) Connector: RJ45, support auto-mdix MAC table: 4096
<b>Power:</b>	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
<b>Working environment:</b>	Operating temperature: 0 to 50 C Storage temperature: -20 to +70 °C Relative humidity: 5% to 90%

## Application scheme:



## Ordering Information

<b>2902-FA/ETH/AC</b>	Framed (fractional nx64 kbit/s) 2048 Kbps E1 - Ethernet interface convertor, 75/120 ohm impedance universal, 96 -260 AC universal
<b>2901-FA/ETH/DC 48 or 24</b>	Framed (fractional nx64 kbit/s) 2048 Kbps E1 - Ethernet interface convertor, 75/120 impedance universal, 48 VDC or DC +24V

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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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