



## ◆ Framed E1-FE Converter

### ➤ Features

- Based on self -copyright IC
- E1 supports any timeslot set, the rate is 64K-2048K
- The local device can forced the remote device rate follow it
- Can realize monitor and control of remote equipment, OAM management data did not take up user' s timeslot and save E1 bandwidth
- Have the function of E1 interface loop back check, avoid the converter crashed because of interface loop back;
- Have indicator when the device is power-off or E1 line is broken or lose signal;
- Can set the E1 line that not to send the LINK signal to Ethernet interface while E1 line is broken;
- The Ethernet interface supports jumbo frames (2036 Bytes);
- Inter-set dynamic Ethernet MAC address (4,096) with local data frame filtering
- Ethernet interface supports 10M/100M, half/full duplex auto- Negotiation and AUTO-MDIX(crossed line and straightly connected line self-adaptable );
- Have Ethernet monitor self-reset function, the equipment will not dead
- Can achieve the remote device setting any 5 mode of Ethernet and can closed the AUTO-MDIX function;
- Provide 2 clock types: E1 master clock and E1 line clock;
- Have three Loop Back Mode: E1 interface Loop Back (ANA)、 Ethernet interface Loop Back(DIG)、 Command the remote Ethernet interface Loop Back(REM)
- Provide 2 impedances: 75 Ohm unbalance and 120 Ohm balance;
- Support SNMP Network Management;
- Can realize monitor of remote equipment temperature and voltage from local equipment;



### ➤ Introduction

This interface converter is based on FPGA, providing one framed E1 interface and one Ethernet interface to achieve 10/100Base-T Ethernet data transmission on the E1 channel. It is a high performance, self-learning Ethernet bridge. This device is the extension device of Ethernet, using network (PDH/SDH/Microwave) that provide E1 channel to achieve local and remote Ethernet interconnecting with serial interfaces at a lower cost. The device has inter-set loop test function to facilitate the project launching and daily maintenance.

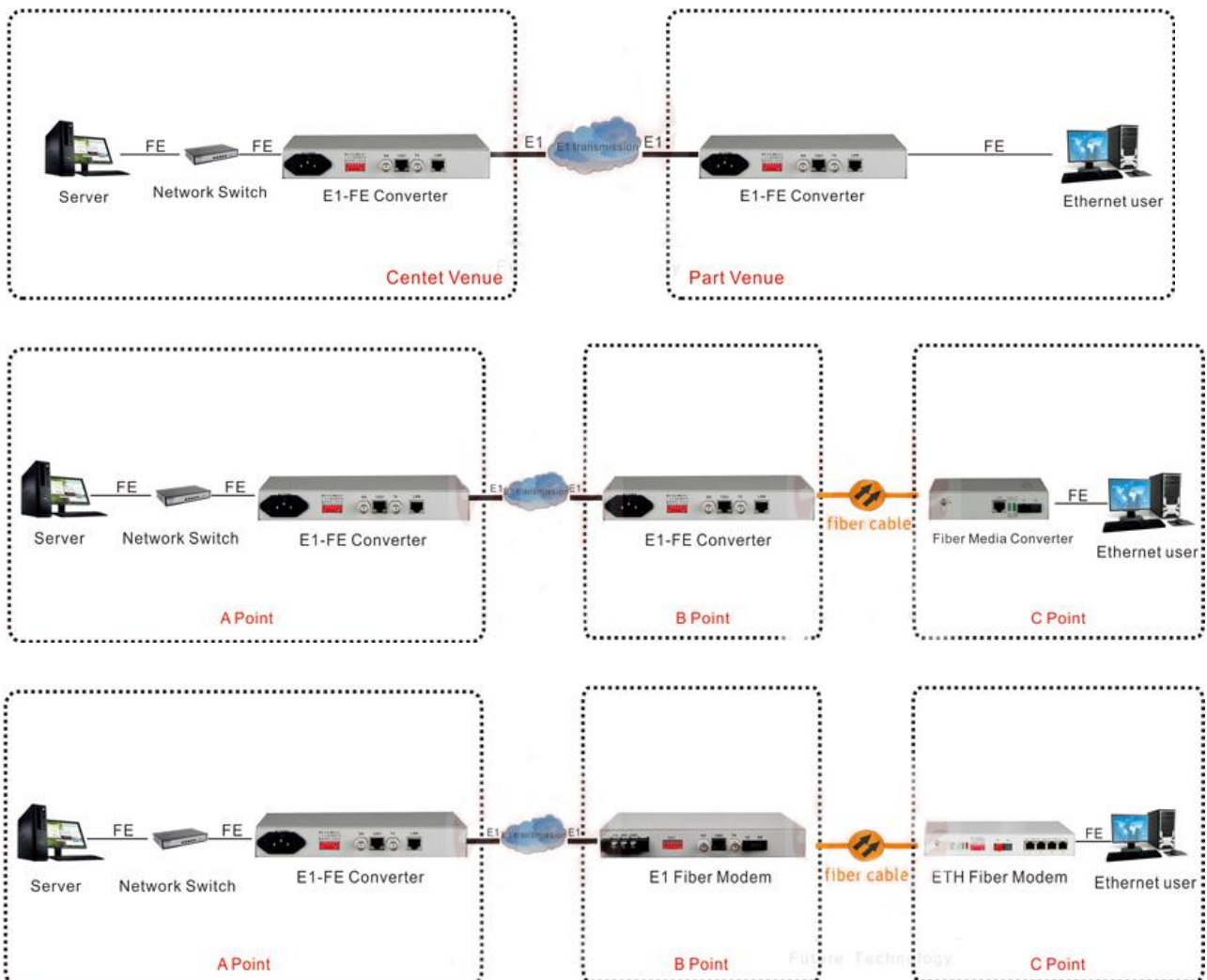
### ➤ Specification

#### E1 Interface

Interface Standard	comply with protocol G.703
Interface Rate	n*64Kbps ± 50ppm
Interface Code	HDB3
E1 Impedance	75Ω (unbalance), 120Ω (balance)
Jitter tolerance	In accord with protocol G.742 and G.823

Allowed Attenuation	0~6dBm
<b>Ethernet interface (10/100M)</b>	
Interface rate	10/100 Mbps, half/full duplex auto-negotiation
Standard	Compatible with IEEE 802.3, IEEE 802.1Q (VLAN)
MAC Address Capability	4096
Connector	RJ45, support Auto-MDIX
<b>Power</b>	
Power supply	AC180V ~ 260V; DC-48V; DC +24V
Power consumption	≤10W
<b>Dimension</b>	
Product Size	216*140*31mm(W*D*H)
Simple packaging	274*193*84mm(W*D*H)
Piece Weight	1.2KG
<b>Working environment</b>	
Working temperature:	-10° C ~ 50° C
Storage temperature	-40°C ~ 80°C
Humidity	5% ~ 95% (no condensation)
Warranty	3years

## ➤ Application



## ➤ Order information

Model NO.	Description
MW70E	Framed E1-FE Converter, AC220V or DC48V
MW80E	Unframed E1-FE Converter, AC220V or DC48V
MW70E4	Framed E1-4FE Converter, AC220V or DC48V
MW80E4	Unframed E1-4FE Converter, AC220V or DC48V
MW704E4	4E1-4FE Logical Isolation, AC220V or DC48V
MW708E4	8E1-4FE Logical Isolation, AC220V or DC48V