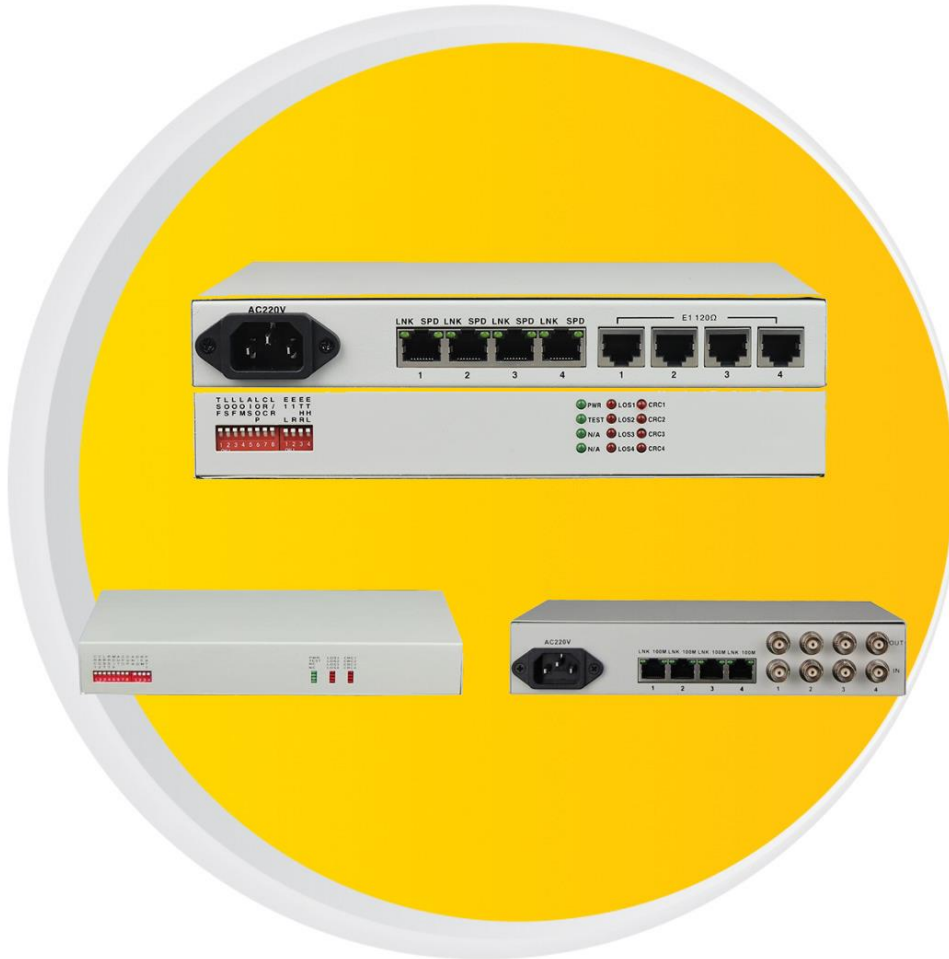




## Smart Architecture of Espadana

Designing, Production, Customization and Consultant Service  
in Network and Fiber Optic System



### Technical Specification

# SAE-2Eth2E1-IPOTDM

2E1 & 2 Fast Ethernet Interface Converter





## Product Description

- Provides total 2 E1 ports transmission capacity(IP over TDM)
- 2Ethernet Interface is 100BASE-FX, support VLAN protocol
- 2Ethernet interface supports 10M/100M, half/full duplex auto-adaptable, support VLAN
- Power supply: AC180V ~ 260V ; DC -48V ; DC +24V
- E1 interface conform to ITU-T G.703, G.704 and G.823, not support the use of signal timeslot
- Allow 2-Channel E1 transmission time delay difference 100ms. When the margin exceed the allowed range, the system can automatically stop on the E1 that time delay is too large to send data
- Single Channel lines rate is 1984Kbit/s, 2Channel Bandwidth is up to 3968Kbit/
- Provide Inter-set dynamic Ethernet MAC address (4,096) with local data frame function
- Support E1 channel hot-plug in the device, and automatically detects the effective E1 channel and will not interrupt data transmission

## Full Description

This **SAE-2Eth2E1-IPOTDM** converter that use the FPGA chips and easy to upgrade , which supplies 1-2Channel E1 channel configuration, can automatically detect the number of E1 and select the E1 available.the **SAE-2Eth2E1-IPOTDM** include 2Channel 100BASE-TX which using reverse direction multiplexing technology to bundle for multiple E1 circuits to transmit the Ethernet data of 2Channel 100BASE-TX. It can realize 1~2E1 channel to convert between Ethernet optical interface. This device can transmit the transceiver signal point to point to Ethernet optical interface to make E1 channels interconnected with Ethernet optical interface. It allows E1 lines transmission time delay difference. This converter **SAE-2Eth2E1-IPOTDM** is made with high quality of rigorous screened components, which have superior performance in stability, environmental adaptability. It can work normally in very cold environment to very hot from  $-35^{\circ}\text{C}$  to  $+75^{\circ}\text{C}$ . The product is planned in a way to have better resistance against corrosion and electromagnetic interference. Power input also made a suitable and reliable types of power, to get more powerful suitability to environment.



### Application

- Access points wireless systems and transmission data
- used in computer networking
- Management and support Intelligent telecommunications operators supervisory
- Used between main command center and branch offices

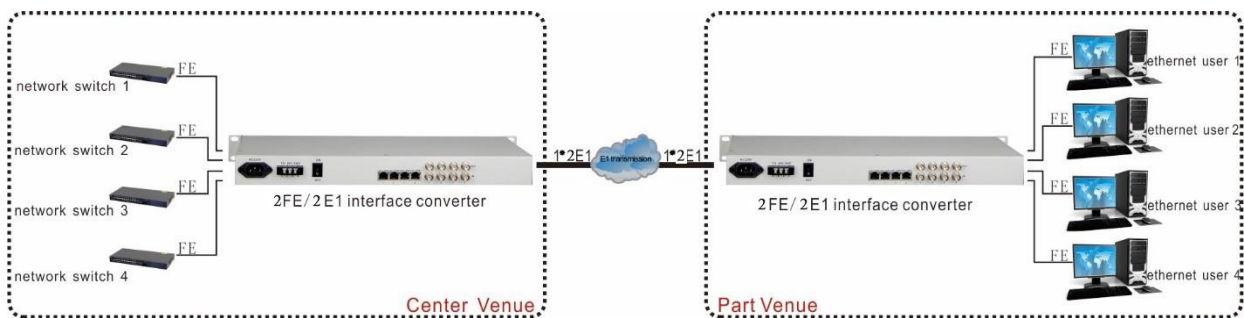
### Technical Specification

Product name	SAE-2Eth2E1-IPOTDM
<b>Ports</b>	
2 E1 ports transmission, 2FE(wire speed 100M)Ethernet ports	
<b>standards</b>	
<ul style="list-style-type: none"> <li>➤ Support protocol G.703 for E1</li> <li>➤ Support protocol G.742 and G.823 for Jitter tolerance</li> </ul>	
<b>E1 specification</b>	
<ul style="list-style-type: none"> <li>➤ Packet Forwarding Rate: n*64Kbps±50ppm;</li> <li>➤ E1 Impedance: 75Ω (unbalance), 120Ω (balance);</li> <li>➤ Allowed debilitation: 0 to 6dBm</li> <li>➤ Interface Code: HDB3</li> </ul>	
<b>Ethernet interface(10/100M)</b>	
<ul style="list-style-type: none"> <li>➤ Interface rate:10/100 Mbps, half/full duplex auto-negotiation</li> <li>➤ Interface Standard: Compatible with IEEE 802.3, IEEE 802.1Q (VLAN)</li> <li>➤ MAC Address Capability: 4096</li> <li>➤ Connector: RJ45, support Auto-MDIX</li> </ul>	



<b>Power</b>	
Multifold power mode options: AC220V, DC-48V / DC-24V Power supply: AC180V ~ 260V; DC -48V; DC +24V Max Power consumption: 10W	
<b>Dimension</b>	
Product Size: Mini type 216*140*31mm (W*D*H), 1.3KG/piece 19inch 1U type 483*138*44mm (W*D*H), 2.0KG/piece	
<b>Environmental Aspects</b>	
Working temperature:	-10° C ~ 50° C
Working Humidity:	5%~95 % (no condensation)
Storage temperature:	-40° C ~ 80° C
Storage Humidity:	5%~95 % (no condensation)

**Application display**



1-2channel E1 transmission line bandwidth 1984Kbit / s -3968Kbit / s