



## 4E1+1Ethernet Fiber Multiplexer



**Model: AZ-OP-4E1**

### **Functions:**

AZ-OP-4E1 is the 4E1 point-to-point optical transport equipment that uses the FPGA chips and it is easy to upgrade. It is single board structure and the largest transmission capacity is 4E1 and 1\*100M line Ethernet data. the Ethernet bandwidth is set on base on multiple of 32K. The design use the mini type rack, so the volume is small, weight is light and operation is

### **PRODUCT CHARACTERISTIC:**

- ✧ Provides 4 E1 transparent transmission ;
- ✧ Provide 1channel Ethernet channel, support mutual negotiate, Ethernet bandwidth is set on base on multiple of 32K(optional).;
- ✧ The rate of optical port is 155Mbps, transmission range can reach 25KM, 40KM, 60KM, 80KM or 100km, 120KM;
- ✧ E1 interface code is HDB3 , E1 vibration characteristic conforms to ITU-T G.703、 G.823 and G.742;
- ✧ Ethernet port supports full/half duplex, 10M/100M auto-ataptable;
- ✧ Ethernet port supports VLAN function and has 4 devision mode for user selection;
- ✧ Has complete alarm function and can monitor remote device status;
- ✧ Supports E1 loop from remote so as to detect and manage device conveniently;
- ✧ The power can be AC220V or DC-48V



**E1 interface:**

Interface code: HDB3 code  
Line speed: 2.048Mbps ±50ppm  
Interface standard: ITU-T G 703  
Interface impedance:  
75Ω/unbalanced (BNC) or 120Ω/balanced (RJ45)  
Allowed attenuation: 0~6dBm

**10/100Base-T Port:**

Rate: 10/100M, full/duplex auto-negotiation  
Protocol: Support IEEE 802.3  
MAC Address Entries: 4096 Entries  
Connector: RJ45

**Fiber interface:**

Optical wavelength:  
1310nm/1550nm for single-mode optic interface for option  
850nm/1310nm for multi-mode optic interface for option  
Transmitting range:  
MM 2Km/5Km, SM 20Km/40Km/60 Km/120Km for option  
Optical interface: SC/FC/ST for option  
Sending consumption: -3dBm/2dBm  
Receiving and dispatching module: >-36dBm  
Optical receiver receiving sensitivity: <-36 (BER<10):  
Optical code: NRZ

**Power supply:**

working voltage range wide, good  
anti-disturb and Isolation, work stable  
Option I – DC-48V, range DC-36V~DC-72C  
Option II – AC220V, range AC165V~AC240V  
Power Consumption: ≤3 Watts

**Environment condition:**

Operating temperature: 0C~+50 C  
Storage temperature: -20 C~+70 C  
Relative temperature:95% (uncondensed)

**Order information:**

AZ-OP-4E1 4E1 over fiber multiplexer, E1 75ohm or 120ohm,  
Dual fiber, 20KM, power AC 220V or DC 48V  
AZ-OP-4E1-ETH 4E1 over fiber multiplexer, 1\*100M Ethernet, E1 75ohm or 120ohm,  
Dual fiber, 20KM, power AC 220V or DC 48V

**APPLICATION:**

