

Framed E1 Fiber Modem

Lightem LE1FM-F, Framed E1 Fiber Modem provides one Framed E1 interface and one optical interface to achieve interface conversion, rate conversion and timeslot extraction from E1 to Optical. When unframed mode, the data channel rate is 2.048Mbps. The device has inter-set loop test function to facilitate the project launching and daily maintenance.



FEATURES

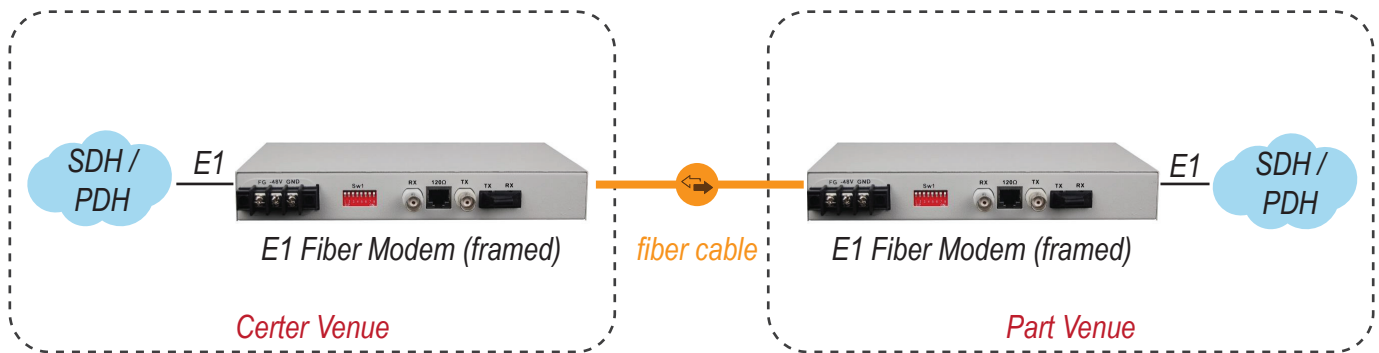
- Based on self - copyright IC
- Can detect the reason of optical signal losing is that the device power-off or transmission fiber broken
- Provide 2 impedances: 75 Ohm unbalance and 120 Ohm balance;
- After strict testing and practical verification system, completely comply with protocol ITU-T V.35, G.703, G.704
- The hardware realizes any one of 31 time slot any time slot optional (valid when framed)
- Have three Loop Back Mode: E1 interface Loop Back (ANA) \ V.35 interface Loop Back(DIG) \ Command the remote V.35 interface Loop Back(REM)
- Have pseudo random code test function, easily line opened, can be used as a 2M BER Tester
- AC 220V, DC-48V, DC+24V, DC Power and Polarity-Free
- FE1 fiber modem can use with V.35 fiber modem, that can save a G.703/V.35 converter

SPECIFICATIONS

Parameter	
<i>Fiber</i>	
Multi-mode Fiber	50/125um, 62.5/125um
Maximum transmission distance	5Km @ 62.5 / 125um single mode fiber, attenuation (3dbm/km)
Wave length	820nm
Transmitting power	-12dBm (Min) --9dBm (Max)
Receiver sensitivity	-28dBm (Min)
Link budget	16dBm
Single-mode fiber	8/125um, 9/125um
Maximum transmission distance	40Km
Transmission distance	40Km @ 9 / 125um single mode fiber, attenuation (0.35dbm/km)
Wave length	1310nm
Transmitting power	-9dBm (Min) --8dBm (Max)
Receiver sensitivity	-27dBm (Min)
Link budget	18dBm.
<i>E1 Interface</i>	
Interface standard	comply with protocol ITU-T 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
<i>Working environment</i>	
Working temperature	-10°C ~ 50°C
Working humidity	5%-95 % (no condensation)
Storage temperature	-40°C ~ 80°C
Storage humidity	5%-95 % (no condensation)

Functional description	Framed E1 Fiber Modem › Provide 1* E1 transmission in optical fibers , 1-32 can choose any open slots
Port description	One Fiber interface : 1*Framed E1 Interface
Power supply	AC180V ~ 260V ; DC -48V ; DC +24V
Power consumption	≤5W
Dimension	216X140X31mm (WXDXH)
Weight	1.2KG

APPLICATION



ORDERING INFORMATION

PN	Description
LE1FM-F	Framed E1 Fiber Modem