



**Overview:**

**FES CSU DSU** is used to combine Ethernet signal an E1 signal from user end then transmit multiplexed signal through a E1 channel. E1 data rate and Ethernet data rate can be configured at any rate provided the total data rate is within E1 bandwidth (1984Kbps). E1-M is uplink E1 channel and E1-S is downlink E1 channel at user end.

**Technical Specifications:**

<b>Header :</b>
Brand : FES Product Line : Forever Engineering Systems Pvt. Ltd.
<b>Features:</b>
<ul style="list-style-type: none"> <li>• Provide rich auto-operation and auto-calculation options. Users can configure the device easily.</li> <li>• Self-learn Ethernet MAC address, decide forward or filter the data frame based on source MAC address and destination MAC address.</li> <li>• Ethernet data rate can be configured based on E1-S data rate configuration.</li> <li>• Local device can follow the configuration of remote device automatically or users can command remote device to follow local configuration.</li> <li>• Provide rich alarming and loop testing function.</li> </ul>
<b>Specifications:</b>
<b>E1 Interface</b>
<ul style="list-style-type: none"> <li>• Data rate: N*64Kbit/s (N=1-31)</li> <li>• Coding: HDB3</li> <li>• Impedance: 75Ω(unbalanced)/120Ω(RJ48-C balanced)</li> <li>• Standard: compliant with G.703、 G.704</li> <li>• Jitter: compliant with G.832</li> <li>• Connector: Q9/RJ45</li> </ul>

**CORPORATE OFFICE**

B-817, 8TH FLOOR, ADVANT NAVIS BUSINESS PARK, SECTOR-142, NOIDA-201301, UTTAR PRADESH, INDIA  
MOB: 9643979291, PHONE: 0120-4277142

EMAIL: [forever.noida@gmail.com](mailto:forever.noida@gmail.com)



- Alarm Indicators: code breaking, frame loss, CRC alarm, AIS

**Ethernet**

- Interface data rate: N\*64Kbit/s (N=1-31)
- Transmission speed: 10/100M auto negotiation
- Duplex mode: full/half duplex auto negotiation

**Power supply:**

- Voltage: Stand-alone AC 220V/DC -48V optional, Chassis-based: AC220V/DC-48V, hot redundancy and swappable
- Voltage range: 180 VAC~260 VAC or -38 VDC ~ -72 VDC
- Power consumption: stand-alone: <5W, Chassis-based: <75W

**Dimension:**

- Stand-alone mini type: 218mm\*136mm\*44mm , 2 sets can be mounted on 1 19" rack Chassis-based: 483mm\*165mm\*177mm

**Operating environment:**

- Working Temp.: -20°C ~ +70°C Humidity: 95%

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