

### CFP Transceiver ER4 40KM 100G DWDM

The 40km 100G Ethernet CFP ER4 Optical Transceiver Module can support link lengths up to 40 kilometers on standard duplex single-mode fiber (SMF, G.652) terminated with LC/PC optical connectors. 100 Gigabit Ethernet signal is carried over four wavelengths. Multiplexing and demultiplexing of the four wavelengths are managed within the device. The 100GBASE-ER4 CFP module meets the IEEE 802.3ba requirements for 100GBASE-ER4 performance and also supports Digital Optical Monitoring (DOM) of the transmit-and-receive optical signal levels.



#### Features:

- Direct LC receptacle optical interface
- Single +3.3V power supply
- Hot-plug
- Operating optical data rate up to 112Gbps
- Transmission distance up to 40km
- AC coupling of CML signals
- 1310 nm window cooled EA-DFB LD
- Integrated SOA, PIN ROSA and TOSA
- Low power dissipation(Max:9W)
- Built in digital diagnostic function
- Operating case temperature range: 0°C to 70°C
- MDIO Communication Interface



**Applications:**

100G Ethernet Data Center Networking  
Converged Enhanced Ethernet Data Centers  
Data Center Bridging Networked Storage Systems

**Parameters:**

Parameter	
Package (Form Factor)	CFP ER4
Data Rate (typical)	25.78~27.95Gbps/CH
Centre Wavelength	1310nm(Center)
Distance	40KM SMF
Diagnostics	Digital Monitor
Transmitter	4x28Gb/s DFB
Receiver	PIN photo detector
TX Output Power (dBm)	-2.5~+2.9
RX Sensitivity (dBm)	-20.9(100GE)/-23.2(OTU4)
Low/High Case Temperature	0°C~70°C
Voltage Supply (typical)	3.3v
Connector	Duplex LC/UPC