

本产品是一个100Gb/s的收发器模块,设计用于符合IEEE P802.3ba标准的100GBASE-LR4的光通信应用程序。该模块将4个25Gb/s的电数据输入通道转换为4个通道的局域网WDM光信号,然后将它们复用为一个单通道,进行100Gb/s的光传输。在接收端,模块将一个100Gb/s的光输入反向复用到4个通道的局域网波分复用光信号中,然后将它们转换为4个电子数据的输出通道。在IEEE 802.3ba中定义的LAN WDM波长网格的中心波长分别为1295.56、1300.05、1304.58和1309.14nm。高性能冷却局域网WDM DFB发射机和高灵敏度PIN接收器为100千兆以太网高达10公里链路应用提供优越的性能,并符合IEEE802.3ba条款88 100GBASE-LR4的光学接口要求。

This product is a 100Gb/s transceiver module designed for optical communication applications compliant to 100GBASE-LR4 of the IEEE P802.3ba standard. The module converts 4 input channels of 25Gb/s electrical data to 4 channels of LAN WDM optical signals and then multiplexes them into a single channel for 100Gb/s optical transmission. Reversely on the receiver side, the module de-multiplexes a 100Gb/s optical input into 4 channels of LAN WDM optical signals and then converts them to 4 output channels of electrical data.

The central wavelengths of the 4 LAN WDM channels are 1295.56, 1300.05, 1304.58 and 1309.14 nm as members of the LAN WDM wavelength grid defined in IEEE 802.3ba. The high performance cooled LAN WDM DFB transmitters and high sensitivity PIN receivers provide superior performance for 100Gigabit Ethernet applications up to 10km links and compliant to optical interface with IEEE802.3ba Clause 88 100GBASE-LR4 requirements.



标准产品/Standard Parts

| 序号 No. | 名称 Name | 型号 Model | 速率 DR (Gbps) | 发射 (类型) TX (Type) | 接收 (类型) RX (Type) | 发射最小 光功率 TX_Min (dBm) | 发射最大 光功率 TX_Max (dBm) | 接收最小 灵敏度 RX_Min (dBm) | 接收最大 灵敏度 RX_Max (dBm) | 功耗 Power Consumption (W) | 距离 Reach (km) | 温度范围 Temperature (°C) |
|-----------|-----------------------|-------------|--------------------|----------------------------|----------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-----------------------------------|---------------------|-----------------------------|
| 1 | 100G QSFP28 LR4 | RQDFL4LN | 100 | DFB LWDM | PIN | -4.3 | 4.5 | -10.6 | 4.5 | <3.5 | 10 | 0~70 |