

# IP-CALK30E31C

## QSFP28 100Gbps ER4 Lite DDM Transceiver

### PRODUCT FEATURES

- Supports 103.1Gbps aggregate bit rate
- 4x25Gbps electrical interface
- 4X25Gbps LAN-WDM EML transmitter and APD/TIA receiver
- Maximum link length of 30km on SMF without FEC
- Hot pluggable QSFP28 footprint
- Duplex LC receptacles
- Single 3.3V power supply
- Maximum power dissipation < 4.5W
- RoHS-6 compliant and lead-free
- I<sup>2</sup>C management interface
- 0°C to +70°C case operating temperature



### APPLICATIONS

- 100GBASE-ER4 100G Ethernet
- OTN OTU4
- Client-side 100G interconnects

### COMPLIANCE

- QSFP28 MSA SFF-8665
- IEEE802.3ba 100GBASE-ER4
- ROHS

## PRODUCT DESCRIPTION

IP- CALK30B31C is a 100Gb/s transceiver module designed for optical communication applications compliant to QSFP MSA, 4WDM-40 MSA, 100GBASE-ER4 Lite, and OTU4 standards. The module converts 4 input channels of 28Gb/s electrical data to 4 channels of LAN-WDM optical signals and multiplexes them into a single channel of 112Gb/s optical transmission. Reversely, the module de-multiplexes a 112Gb/s optical input into 4 channels of LAN-WDM optical signals and converts them to 4 output channels of electrical data. The central wavelengths comply the LAN-WDM wavelength grid defined in IEEE 802.3ba. The high-performance cooled LAN-WDM DFB transmitters and high-sensitivity APD receivers provide superior performance for 100-Gigabit Ethernet applications up to 30km links without FEC and up to 40km links with FEC.

## I. Contact Information

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## Revision History

Version No.	Date	Description
1.0	August 20, 2020	Preliminary datasheet