DUXQSFPSR

QSFP+, 40G Ethernet eSR4, MM, 850nm, 400m, 1.9dB, MPO

OVERVIEW

The DUXQSFPSR is a high-performance QSFP+ (Quad Small Form-factor Pluggable Plus) transceiver designed for IEEE 802.3ba-compliant 40 Gbps Ethernet applications. It enables efficient interconnect and intra-connect links within and between data centers, providing high-speed connectivity between switches, routers, and storage systems.

Operating at 850 nm, the DUXQSFPSR multiplexes 4 × 10 Gbps data streams across four parallel optical channels using a ribbon-fiber connection, delivering a total data rate of 40 Gbps. Fully SR4-compliant, it exceeds standard SR4 distance performance, supporting transmission of up to 400 meters over OM4 multimode fiber — extending flexibility for high-density network designs.

The transceiver supports digital diagnostics monitoring (DDM) via a 2-wire serial interface compliant with the SFF-8472 specification, providing real-time monitoring of critical optical parameters for improved network reliability and maintenance. It connects via an MPO/MTP 12- or 8-fiber ribbon interface, ensuring easy integration into modern high-speed data center infrastructures.

TECHNICAL DATA

Parameter	Value
Technology	Grey QSFP+
Transmission media	SM (1x MPO)
Typical reach	300m/400m OM3/OM4
Nominal wavelength	4x 850nm
Bit rate support	41.25 Gbps [1]
	10.3125 Gbps [2]
Interface standards	40GBASE-eSR4
Protocol support	40GbE
	Infiniband QDR/DDR
Power budget	0 – 1.9 dB
Power consumption	< 1.5W
Operating temperature	0°C to +70°C
Storage temperature	-40°C to +85°C
DUXQSFPSR	QSFP+, 40G Ethernet eSR4, MM 850nm, 300m/OM3, 400m/OM4, 1.9dB, MPO

Parameter	Value
Transmitter data	
Output power	Min: -7.6dBm [3]
	Max: +2.4dBm [3]
Transmit wavelength	830 – 860nm
Receiver data	
Minimum input power	-9.5dBm [3] [4]
Overload (max power)	+2.4dBm [3] [4]
Wavelength range	830 – 860nm
DDM	Yes
MSA compliance	QSFP+ MSA
	SFF-8636
Safety/regulatory compliance	TUV/UL/FDA (contact Smartoptics for latest certification information)
	RoHS compliance

[1] Aggregated line rate
[2] Per lane
[3] Average power
[4] Measured with PRBS 2^{31}-1 test pattern, 10.3125Gb/s, BER< 10^{-12}

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