



HS-2733LC20D

Bi-Di

HS-2733LC20D is a pair of reliable, industrial-grade 1G/2.5G SFP modules designed for single-mode links up to 20 km. By transmitting and receiving on different wavelengths over a single fiber strand, these modules help reduce fiber requirements while maintaining stable long-distance connectivity.



This new pair delivers all the essential features of our popular S-3553LC20D modules, but now with 2.5G support at the same affordable price. A practical upgrade for single-fiber deployments that require more bandwidth without replacing existing infrastructure.

The module includes built-in digital diagnostics (DDM) for monitoring optical power, voltage, temperature, laser bias current, and other key parameters. These functions help detect abnormal activity or when customizable operating limits are exceeded. Monitoring makes it easier to plan ahead, make informed decisions, and schedule upgrades or maintenance based on real performance data.

• Specifications

Product code	HS-2733LC10D
Format	SFP
Connector	Simplex LC connector
Mode	Single mode
Data Rate	1G/2.5G
Wavelength	1270nm + 1330nm
Distance	Up to 20 km

Electrical characteristics	Min.	Max.	Unit	Note
Receiver				
Receiver differential output voltage	300	600	mVpp	1
LOS output Voltage-High	Vcc- 0.5	Vcc	V	2
LOS output Voltage-Low	Vee	Vee+0.5	V	2

1. Into 100Ω differential termination.

2. LOS is an open collector output. Should be pulled up with 4.7kΩ – 10kΩ on the host board. Normal operation is logic 0; loss of signal is logic 1.

Optical characteristics	Min.	Max.	Unit	Note
Transmitter				
Output power	-5	0	dBm	1
Receiver				
Receiver sensitivity (OMA)		-18	dBm	2
LOS-Deasserted (Avg.)		-19	dBm	
LOS-Asserted (Avg.)	-35		dBm	
LOS-Hysteresis	0.5	5	dB	

1. The optical power is launched into 9/125μm SMF.

2. Measured with a PRBS 27-1 test pattern @2.5Gbps, worst-case extinction ratio, BER ≤1×10⁻¹⁰