



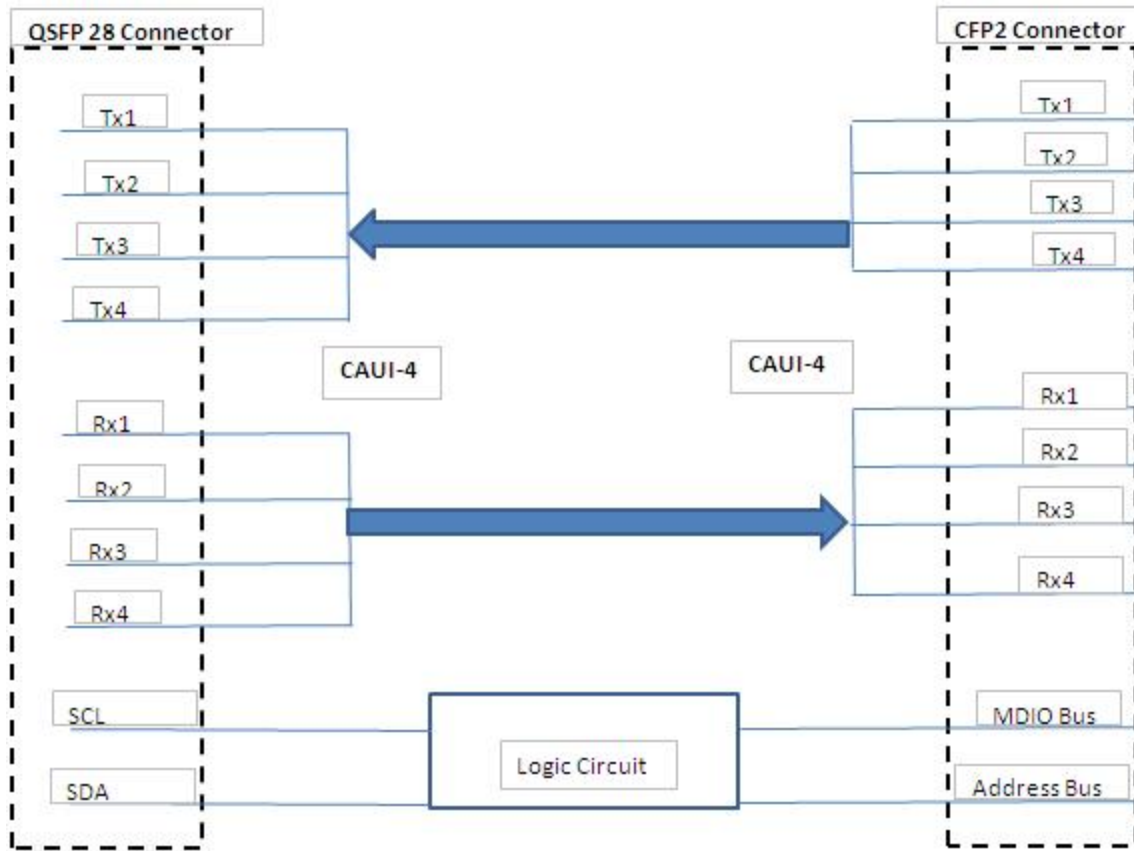
100G CFP2 TO QSFP28 Adapter Module

CVR-CFP2-QSFP28

GENERAL DESCRIPTION

General Information	
Manufacturer Part Number	CVR-CFP2-QSFP28
Product Name	CVR-CFP2-QSFP28 Adapter Module
Product Type	Adapter Module
Power consumption	Max: 0.25W (3.3V voltage, max current 0.08A)
Features	<ul style="list-style-type: none">● CAUI -4 Electrical Interface:4 Lanes @25.78Gbit/s for CFP2 port● CAUI -4 Electrical Interface:4 Lanes @25.78Gbit/s for QSFP28 port● Hot Pluggable● MDIO, I2C Support● Compliant to CFP2 MSA● RoHS-6 compliant● Case operating temperature: 0 to 70 °C● The CVR-CFP2-QSFP28 Adapter Module converts a 100 Gigabit CFP2 port into a 100 Gigabit QSFP28 port. With the Adapter Module, customers have the flexibility to use the 100 Gigabit CFP2 interface port of a switch with CFP2 modules or QSFP28 modules.
I/O Expansions	
CFP2 port	MDIO
QSFP28 port	I2C
Physical Characteristics	
Dimensions	12.4mmHeight x 41.5Width x 108.2 Depth

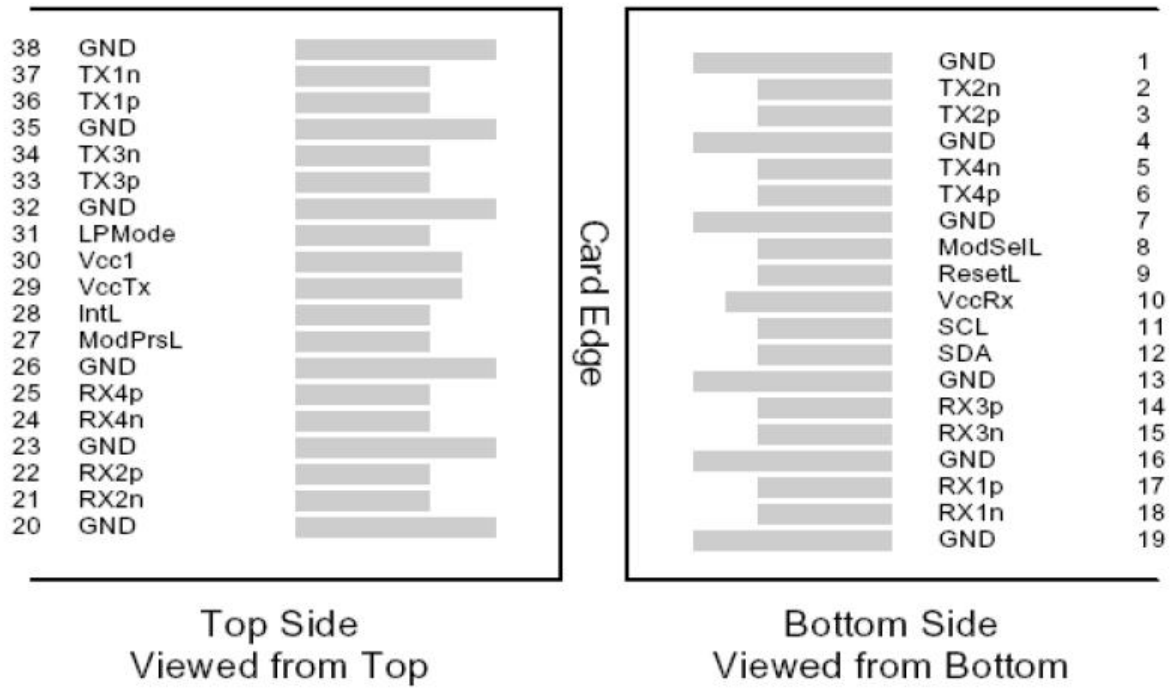
Block Diagram



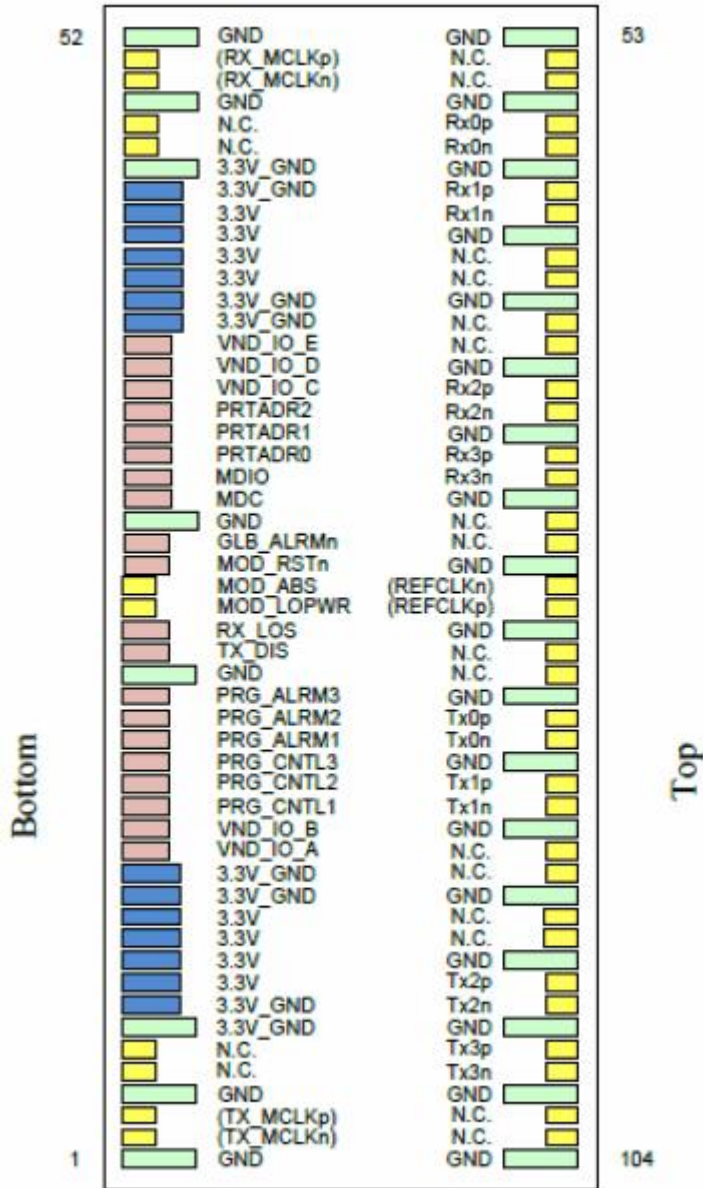
CAUI-4 Interface (QSFP28 port&CFP2 port)

CAUI Receiver Parameters	Symbol	Min.	Typ.	Max.	Unit	Note
Signal Rate Per Lane			25.78		Gb/s	
Differential data output swing per lane	V _{out,pp}	CAUI-4 as defined by IEEE P802.3bm			mV	
Data output rise time	t _r				ps	
Data output fall time	t _f				ps	
CAUI Transmitter Parameters	Symbol	Min.	Typ.	Max.	Unit	Note
Signal Rate Per Lane			25.78		Gb/s	
Frequency offset		-100		100	ppm	100G Ethernet
		-20		20	ppm	OTU4
Input differential impedance	R _{in}	CAUI-4 as defined by IEEE P802.3bm			Ω	
Differential data input swing per lane	V _{in,pp}				mV	
Data input rise time tolerance	t _r				ps	
Data input fall time tolerance	t _f				ps	

PIN Assignment of QSFP28 port

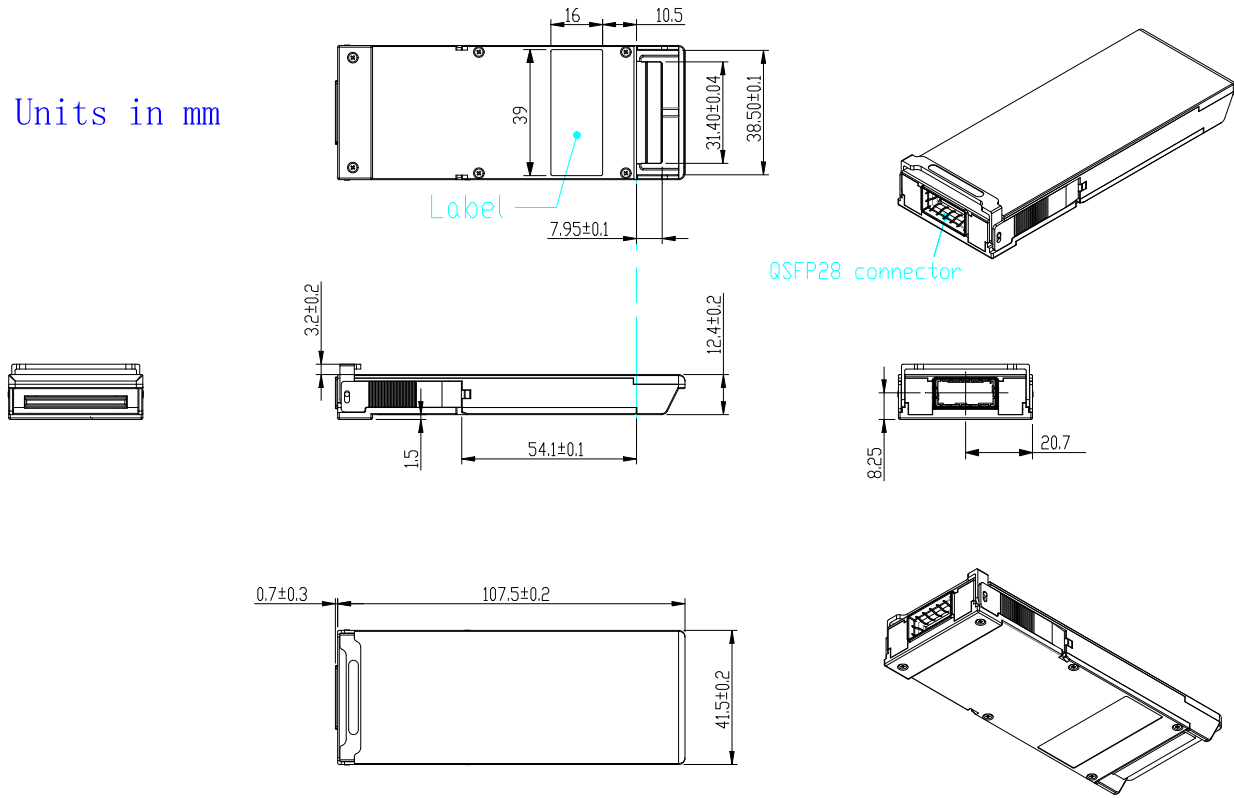


PIN Assignment of CFP2 port



Package Outline (Unit:mm)

Units in mm



Appendix A. Document Revision

Version No.	Date	Description
1.0	2016-05-10	Preliminary datasheet
2.0	2017-08-11	Add power consumption & frequency offset information