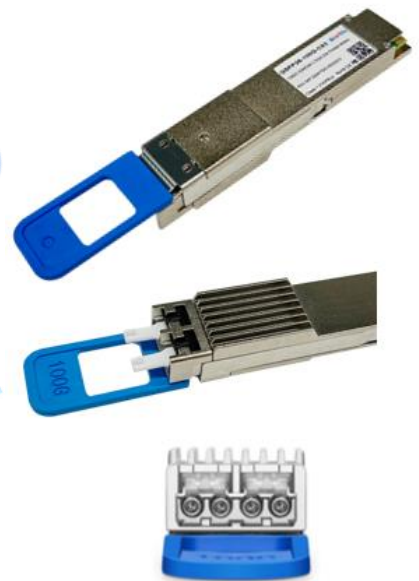


## 100G QSFP28 PAM4 DWDM Transceiver

The 100G QSFP28 DWDM (2λ) optical module from Sintai Communication Co., Ltd. is designed for 80km data center interconnection in metro area. The module can convert 4 x 25Gbps (NRZ) electrical signals to 2 x 50Gbps (PAM4) optical signals, and also convert 2 x 50Gbps (PAM4) optical signals to 4 x 25Gbps (NRZ) electrical signals, providing a total of 96 nominal DWDM wavelengths (50GHz interval) in the C-Band 191.30THz~196.05THz range, intended for deployment in DWDM network equipment in metro access and core networks. The electrical interface of the module is QSFP28 MSA compliant.

### Product Features

- Supports 100Gbps
- Applicable to C-Band 50GHz DWDM wavelength as defined by ITU-T standard
- Transmission distance up to 80km (with EDFA and DCM)
- Compliant with QSFP28 MSA standard
- Integrated SFEC capability with high coding gain
- 4x25G CAUI4 electrical interfaces
- Dual CS optical interfaces
- I2C interface with integrated digital diagnostics
- Supply voltage: 3.3V
- Operating temperature: 0°C to +70°C
- Power consumption: <5W
- RoHS-6 compliant (lead-free)



### Applications

- 100GE over DWDM
- Data Center Interconnection

Package	Model	Rate	Transmitting optical power	Receiving sensitivity	Interface
QSFP28	ST-QDCZ-C13/14 <sup>2</sup>	103.125Gbps	-1 ~ +4dBm	-12.5dBm@BER 4E-3	Dual CS

Model Code	Transmitter 1			Transmitter 2		
	Channel No.	Center Frequency (THz)	Central Wavelength (nm)	Channel No.	Center Frequency (THz)	Central Wavelength (nm)
ST-QDCZ-C13/14	C13	191.30	1567.13	C14	191.40	1566.31
ST-QDCZ-H13/14	H13	191.35	1566.72	H14	191.45	1565.90
ST-QDCZ-C15/16	C15	191.50	1565.50	C16	191.60	1564.68
ST-QDCZ-H15/16	H15	191.55	1565.09	H16	191.65	1564.27
ST-QDCZ-C17/18	C17	191.70	1563.86	C18	191.80	1563.05
ST-QDCZ-H17/18	H17	191.75	1563.45	H18	191.85	1562.64
ST-QDCZ-C19/20	C19	191.90	1562.23	C20	192.00	1561.42
ST-QDCZ-H19/20	H19	191.95	1561.83	H20	192.05	1561.01
ST-QDCZ-C21/22	C21	192.10	1560.61	C22	192.20	1559.79
ST-QDCZ-H21/22	H21	192.15	1560.20	H22	192.25	1559.39
ST-QDCZ-C23/24	C23	192.30	1558.98	C24	192.40	1558.17
ST-QDCZ-H23/24	H23	192.35	1558.58	H24	192.45	1557.77
ST-QDCZ-C25/26	C25	192.50	1557.36	C26	192.60	1556.55
ST-QDCZ-H25/26	H25	192.55	1556.96	H26	192.65	1556.15
ST-QDCZ-C27/28	C27	192.70	1555.75	C28	192.80	1554.94
ST-QDCZ-H27/28	H27	192.75	1555.34	H28	192.85	1554.54
ST-QDCZ-C29/30	C29	192.90	1554.13	C30	193.00	1553.33
ST-QDCZ-H29/30	H29	192.95	1553.73	H30	193.05	1552.93
ST-QDCZ-C31/32	C31	193.10	1552.52	C32	193.20	1551.72
ST-QDCZ-H31/32	H31	193.15	1552.12	H32	193.25	1551.32
ST-QDCZ-C33/34	C33	193.30	1550.92	C34	193.40	1550.12
ST-QDCZ-H33/34	H33	193.35	1550.52	H34	193.45	1549.72
ST-QDCZ-C35/36	C35	193.50	1549.32	C36	193.60	1548.51
ST-QDCZ-H35/36	H35	193.55	1548.91	H36	193.65	1548.11
ST-QDCZ-C37/38	C37	193.70	1547.72	C38	193.80	1546.92
ST-QDCZ-H37/38	H37	193.75	1547.32	H38	193.85	1546.52
ST-QDCZ-C39/40	C39	193.90	1546.12	C40	194.00	1545.32
ST-QDCZ-H39/40	H39	193.95	1545.72	H40	194.05	1544.92
ST-QDCZ-C41/42	C41	194.10	1544.53	C42	194.20	1543.73
ST-QDCZ-H41/42	H41	194.15	1544.13	H42	194.25	1543.33
ST-QDCZ-C43/44	C43	194.30	1542.94	C44	194.40	1542.14
ST-QDCZ-H43/44	H43	194.35	1542.54	H44	194.45	1541.75
ST-QDCZ-C45/46	C45	194.50	1541.35	C46	194.60	1540.56
ST-QDCZ-H45/46	H45	194.55	1540.95	H46	194.65	1540.16
ST-QDCZ-C47/48	C47	194.70	1539.77	C48	194.80	1538.98

ST-QDCZ-H47/48	H47	194.75	1539.37	H48	194.85	1538.58
ST-QDCZ-C49/50	C49	194.90	1538.19	C50	195.00	1537.40
ST-QDCZ-H49/50	H49	194.95	1537.79	H50	195.05	1537.00
ST-QDCZ-C51/52	C51	195.10	1536.61	C52	195.20	1535.82
ST-QDCZ-H51/52	H51	195.15	1536.22	H52	195.25	1535.43
ST-QDCZ-C53/54	C53	195.30	1535.04	C54	195.40	1534.25
ST-QDCZ-H53/54	H53	195.35	1534.64	H54	195.45	1533.86
ST-QDCZ-C55/56	C55	195.50	1533.47	C56	195.60	1532.68
ST-QDCZ-H55/56	H55	195.55	1533.07	H56	195.65	1532.29
ST-QDCZ-C57/58	C57	195.70	1531.90	C58	195.80	1531.12
ST-QDCZ-H57/58	H57	195.75	1531.51	H58	195.85	1530.72
ST-QDCZ-C59/60	C59	195.90	1530.33	C60	196.00	1529.55
ST-QDCZ-H59/60	H59	195.95	1529.94	H60	196.05	1529.16

