

PASSPORT DATA SHEET

25G SFP28 DWDM



Champion ONE's 25G DWDM transceivers offer direct compatibility with existing switches and routers. These optics can be used as part of a passive DWDM solution that enables network operators to cost-effectively expand their fiber capacity. The 25G DWDM SFP28 10km optical transceivers are designed for Data Center 25G Ethernet and 5G Fronthaul CPRI/eCPRI links reach up to 10km over Single-Mode Fiber (SMF).

*Champion ONE **Passport** transceivers are programmed for universal compatibility across multiple OEM platforms. This open methodology reduces costs and unlocks operational simplicity by reducing sparing costs.*

Technical Specifications

STANDARDS AND REGULATORY COMPLIANCE

SFP28 MSA
IEEE 802.3cc - 25G Ethernet (24.33 –25.78Gbps)
SFF-8431, SFF-8432
Digital monitoring SFF-8472 Rev 10.2 compliant
RoHs compliant

PROTOCOLS AND DATA RATES

Operating data rate: 24.33–25.78Gbps
25G Ethernet
25G CPRI/eCPRI compliant

DIMENSIONS

8.5 x 13.4 x 56.5 mm ; 75 g

CONNECTOR

Duplex LC Connector

WARRANTY

All feature a limited 5-year warranty

NOTES

Available in standard (0 to 70°C) or hardened (-40 to 85°C) temperature range.

PIN or APD receiver available.

C1 Part Number	Wavelength (nm)	Fiber Type	Rated Distance (km)	Hardened Option Available?¹	Description	Output Power (min/max) (dBm)	Receiver Sensitivity (dBm)	Max Power Consumption (W)
25G MULTI-RATE								
25GS28CxxDW10	1528.77 (xx=ch. 61) to 1563.86 (xx=ch. 17)	SMF	10	Yes	Multi-rate DWDM SFP28, ITU channel xx.x, 10km rated, PIN receiver	-3.0 / 5.0	-12.0	1.8
25GS28CxxDW10R2	1528.77 (xx=61) to 1563.86 (xx=17)	SMF	10	Yes	Multi-rate DWDM SFP28, ITU channel xx.x, 10km rated, APD receiver	-3.0 / 5.0	-19.0	2.0

Notes:
1. Hardened Option - operating temperature range is -40 to +85°C (-40 to +185°F). Optical specifications are the same. Part number has a "H" suffix (e.g., 25GS28CxxDW10-H).

Supported Wavelengths/Channels	Frequency (THz)	Center Wavelength (nm)	ITU Channel	Supported Wavelengths/Channels	Frequency (THz)	Center Wavelength (nm)	ITU Channel	Supported Wavelengths/Channels	Frequency (THz)	Center Wavelength (nm)	ITU Channel	Supported Wavelengths/Channels	Frequency (THz)	Center Wavelength (nm)	ITU Channel
	191.10	1568.77	11		192.40	1558.17	24		193.70	1547.72	37		194.95	1537.79	49.5
	191.15	1568.36	11.5		192.45	1557.77	24.5		193.75	1547.32	37.5		195.00	1537.40	50
	191.20	1597.95	12		192.50	1557.36	25		193.80	1546.92	38		195.05	1537.00	50.5
	191.25	1567.54	12.5		192.55	1556.96	25.5		193.85	1546.52	38.5		195.10	1536.61	51
	191.30	1567.13	13		192.60	1556.55	26		193.90	1546.12	39		195.15	1536.22	51.5
	191.35	1566.72	13.5		192.65	1556.15	26.5		193.95	1545.72	39.5		195.20	1535.82	52
	191.40	1566.31	14		192.70	1555.75	27		194.00	1545.32	40		195.25	1535.43	52.5
	191.45	1565.90	14.5		192.75	1555.34	27.5		194.05	1544.92	40.5		195.30	1535.04	53
	191.50	1565.50	15		192.80	1554.94	28		194.10	1544.53	41		195.35	1534.64	53.5
	191.55	1565.09	15.5		192.85	1554.54	28.5		194.15	1544.13	41.5		195.40	1534.25	54
	191.60	1564.68	16		192.90	1554.13	29		194.20	1543.73	42		195.45	1533.86	54.5
	191.65	1564.27	16.5		192.95	1553.73	29.5		194.25	1543.33	42.5		195.50	1533.47	55
	191.70	1563.86	17		193.00	1553.33	30		194.30	1542.94	43		195.55	1533.07	55.5
	191.75	1563.45	17.5		193.05	1552.93	30.5		194.35	1542.54	43.5		195.60	1532.68	56
	191.80	1563.05	18		193.10	1552.52	31		194.40	1542.14	44		195.65	1532.29	56.5
191.85	1562.64	18.5	193.15	1552.12	31.5	194.45	1541.75	44.5	195.70	1531.90	57				
191.90	1562.23	19	193.20	1551.72	32	194.50	1541.35	45	195.75	1531.51	57.5				
191.95	1561.83	19.5	193.25	1551.32	32.5	194.55	1540.95	45.5	195.80	1531.12	58				
192.00	1561.42	20	193.30	1550.92	33	194.60	1540.56	46	195.85	1530.72	58.5				
192.05	1561.01	20.5	193.35	1550.52	33.5	194.65	1540.16	46.5	195.90	1530.33	59				
192.10	1560.61	21	193.40	1550.12	34	194.70	1539.77	47	196.95	1529.94	59.5				
192.15	1560.20	21.5	193.45	1549.72	34.5	194.75	1539.37	47.5	196.00	1529.55	60				
192.20	1559.79	22	193.50	1549.32	35	194.80	1538.98	48	196.05	1529.16	60.5				
192.25	1559.39	22.5	193.55	1548.91	35.5	194.85	1538.58	48.5	196.10	1528.77	61				
192.30	1558.98	23	193.60	1548.51	36	194.90	1538.19	49	196.15	1528.38	61.5				
192.35	1558.58	23.5	193.65	1548.11	36.5										