

COTSWORKS®

TRANSCEIVER Product Matrix | 2016



749 Miner Road
Highland Heights, OH 44143
440.446.8800
ruggedfiberoptics.com

	COTSWORKS Base Part Number	COTSWORKS Ordering Configuration	Form Factor	Data Rate Range	Fiber Type	Wavelength (nm)	Channel Configuration	Digital Diagnostics	Optical Interface	Ruggedization Option	Operating Temp Range A: -40 to 85 C	Operating Temp Range M: -40 to 95 C	Operating Temp Range Z: -55 to 95 C	Operating Temp Range S: -40 to 100 C	Module Serial Bus Address (RCP)	EMI Shield	RoHS Level	Post/Mount Option	ATEX Certification T = Certified	Electrical Interface	Transmitter Type	P _{out}			RX Type	RX Sens. Max	Link Budget min	Reach																
																						(dBm)		(dBm)					(dB)															
																						X ₀	XX ₁	X ₂					X ₃	X ₄	X ₅	X ₆	X ₇											
RJ	RJ-155M-FX	RJ-155M-FX-DPLX-xx ₁ -x ₂ -x ₃ -x ₄ -x ₅ -x ₆ -x ₇	RJ	155Mbps	MMF	(): 1310	1Rx/1Tx	-		LC: Standard LC LX: ARINC-801 D: DDMI	(): Non-Coated R: Polyethylene	•	•	n/a	n/a	(): No Shield E: Shield	(): Lvl 5 6: Lvl 6	(): Imperial Screw U: Metric Screw P: Solder Post	-T	1x10 SMT	LED	-20	-14	PIN	-33	13	2km on OM1																	
	RJ-3G-TX2	RJ-3G-TX2-xx ₁ -x ₂ -x ₃ -x ₄ -x ₅ -x ₆	RJ	125Mbps-3.1875Gbps	MMF	(): 850	2Tx	-	•			•														-	1x10 SMT	VCSEL	-9	-3	n/a	-	-	500m on ≥ OM2 50m on OM1										
	RJ-3G-TX2HP	RJ-3G-TX2HP-xx ₁ -x ₂ -x ₃ -x ₄ -x ₅ -x ₆	RJ	125Mbps-3.1875Gbps	MMF	(): 850	2Tx	-	•			•															-	1x10 SMT	VCSEL	-5	-1	n/a	-	-	500m on ≥ OM2 50m on OM1									
	RJ-3G-RX2	RJ-3G-RX2-xx ₁ -x ₂ -x ₃ -x ₄ -x ₅ -x ₆	RJ	125Mbps-3.1875Gbps	MMF	(): 850	2Rx	-	•			•																-	1x10 SMT	n/a	-	-	PIN	-15	-	500m on ≥ OM2 50m on OM1								
	RJ-3G-LX	RJ-3G-LX-x ₀ -DPLX-xx ₁ -x ₂ -x ₃ -x ₄ -x ₅ -x ₆	RJ	125Mbps-3.125Gbps	SMF	(): 1310	1Rx/1Tx		•			•	•						n/a	n/a	(): No Shield E: Shield	(): Lvl 5 6: Lvl 6	(): Imperial Screw U: Metric Screw P: Solder Post	n/a	40 pin socket pluggable	VCSEL	-	1x10/12 SMT	FP	-5	1	PIN	-18	13	10km on SMF-28E									
	RJ-3G-EX	RJ-3G-LX-x ₀ -DPLX-xx ₁ -x ₂ -x ₃ -x ₄ -x ₅ -x ₆	RJ	125Mbps-3.125Gbps	SMF	(): 1310	1Rx/1Tx	(): None	•			•																							-	1x10/12 SMT	DFB	-1	3	PIN	-22	21	40km on SMF-28E	
	RJ-3G-ZX	RJ-3G-LX-x ₀ -DPLX-xx ₁ -x ₂ -x ₃ -x ₄ -x ₅ -x ₆	RJ	125Mbps-3.125Gbps	SMF	(): 1550/CWDM	1Rx/1Tx	D: DDMI	•			•																							-	1x10/12 SMT	DFB	-1	5	PIN	-22	21	80km on SMF-28E	
	RJ-5G-SX	RJ-5G-SX-x ₀ -DPLX-xx ₁ -x ₂ -x ₃ -x ₄ -x ₅ -x ₆ -x ₇	RJ	125Mbps-5Gbps	MMF	(): 850	1Rx/1Tx		•			•	•																							-T	1x10/12 SMT	VCSEL	-5	-1	PIN	-14	9	500m on ≥ OM2 50m on OM1
	RJ-10G-SX	RJ-10G-SX-xx ₁ -x ₂ -x ₃ -x ₄ -x ₅ -x ₆	RJ	8-10Gbps	MMF	(): 850	1Rx/1Tx		•			•																								-	1x10/12 SMT	VCSEL	-5	-1	PIN	-10	5	500m on ≥ OM2 50m on OM1
RJ-10G-LR	RJ-10G-LR-xx ₁ -x ₂ -x ₃ -x ₄ -x ₅ -x ₆	RJ	8-10Gbps	SMF	(): 1310	1Rx/1Tx	default	•	•																			-	1x10/12 SMT	FP	-5	-1	PIN	-12	7	10km on SMF-28E								
RCP	RCP-5G-SX-DX	RCP-5G-SX-DX ₁ -LX-x ₂ -x ₃ -xx ₄ -x ₅	RCP	1-5Gbps	MMF	SX: 850	DX: 2Rx, 2Tx	-		LC: ARINC-801	(): Non-Coated R: Polyethylene	•	•	•	(): C4	n/a	n/a	(): Imperial Screw U: Metric Screw									n/a	40 pin socket pluggable	VCSEL	-5	-1	PIN	-14	-11	≥ 2km on OM2 300m on OM1									
	RCP-5G-SX-TX	RCP-5G-SX-TX ₁ -LX-x ₂ -x ₃ -xx ₄ -x ₅	RCP	1-5Gbps	MMF	SX: 850	TX: 4 Transmitters	-	•			•	•	XX ₁ : C0, C2, C6, C8, CA, CC, CE, D0, D2, D4, D6, D8, DA, DC or DE																n/a	n/a	(): Imperial Screw U: Metric Screw	n/a	40 pin socket pluggable		VCSEL	-5	-1	n/a	-	-			
	RCP-5G-SX-RX	RCP-5G-SX-RX ₁ -LX-x ₂ -x ₃ -xx ₄ -x ₅	RCP	1-5Gbps	MMF	SX: 850	RX: 4 Receivers	-	•			•	•																								DA, DC or DE	n/a	n/a	(): Imperial Screw U: Metric Screw	n/a	40 pin socket pluggable	VCSEL	n/a
	RCP-10G-SX-DX	RCP-10G-SX-DX ₁ -LX-x ₂ -x ₃ -xx ₄ -x ₅	RCP	8-10Gbps	MMF	SX: 850	DX: 2Rx, 2Tx	-	•			•	•																															-
SFF	SFF-3G-TX2	SFF-3G-TX2-xx ₁ -x ₂ -x ₃ -x ₄ -x ₅ -x ₆ -x ₇	SFF	1-3.1875Gbps	MMF	(): 850	2Tx	-		LC: Standard LC LX: ARINC-801	(): Non-Coated R: Polyethylene	•	•		n/a	n/a	(): No Shield E: Shield	(): Lvl 5 6: Lvl 6	(): Posts NP: No Posts	n/a	2x5 TH	VCSEL	-5	-2.5	-	-	-	300m on OM1																
	SFF-3GHP-TX2	SFF-3GHP-TX2-xx ₁ -x ₂ -x ₃ -x ₄ -x ₅ -x ₆ -x ₇	SFF	1-3.1875Gbps	MMF	(): 850	2Tx	-	•			•																		2x5 TH	VCSEL	-9	-1	-	-	-								300m on OM1
	SFF-3G-RX2	SFF-3G-RX2-xx ₁ -x ₂ -x ₃ -x ₄ -x ₅ -x ₆ -x ₇	SFF	1-3.1875Gbps	MMF	(): 850	2Rx	-	•			•																		2x5 TH	-	-	-	PIN	-15	-	300m on OM1							
	SFF-3G-LX	SFF-3G-LX-x ₀ -DPLX-xx ₁ -x ₂ -x ₃ -x ₄ -x ₅ -x ₆ -x ₇	SFF	100M-3.125Gbps	SMF	(): 1310	1Rx/1Tx	(): None D: DDMI	•			•																			2x5/7 TH	FP	-5	1	PIN	-18	13	10km on SMF-28E						
	SFF-4G-SX	SFF-4G-SX-x ₀ -DPLX-xx ₁ -x ₂ -x ₃ -x ₄ -x ₅ -x ₆ -x ₇	SFF	100M-4.25Gbps	MMF	(): 850	1Rx/1Tx		•			•																			2x5/7 TH	VCSEL	-5	-1	PIN	-15	10	500m on ≥ OM2						
	SFB-M-xx-AT	SFB-M-xx ₀ -AT-x ₁ -x ₂ -x ₃ -x ₄ -x ₅	SFF	125-155Mbps	MMF SMF	xx ₀ : 35 = 31Tx/55Rx 53 = 55Tx/31Rx	BiDi	-	•			•																			2x5/7 TH	FP	-14 -9	-8 -1	PIN	-33 -31	19 22	1km on OM1 25km on SMF						
	SFB-M-xx-DP	SFB-M-xx ₀ -DP-x ₁ -x ₂ -x ₃ -x ₄ -x ₅	SFF	125-155Mbps	MMF SMF	xx ₀ : 35 = 31Tx/55Rx 53 = 55Tx/31Rx	BiDi	-	•			•													n/a	n/a					2x5/7 TH	FP	-14 -9	0 0	PIN	-33 -31	19 22	1km on OM1 25km on SMF						
	SFB-G-xx	SFB-M-xx ₀ -DP-x ₁ -x ₂ -x ₃ -x ₄ -x ₅	SFF	1.25Gbps	MMF SMF	xx ₀ : 35 = 31Tx/55Rx 53 = 55Tx/31Rx	BiDi	D: DDMI	•			•																			2x5/7 TH	FP	-7 -6		PIN	-22 -22	15 16	1km on OM1 25km on SMF						