

# Apticom Transceivers Product Guide

How can we light up your day?



Product Family	Ethernet	OTN	Multi-Rate	Form Factor	Max. Data Rate	Media Type	Wavelength	Transmitter	Receiver	Reach	Max. Case Temp. Range	Connector	Part Number	Note(s)
400G Proprietary Coherent	400G QSFP-DD OpenZR+ High Power	■		QSFP-DD	425 Gb/s PAM4	Dual SMF	C-Band DWDM	Tunable Tx	Coherent Rx	1800km	0 to 70°C	LC	AQE-7xxx	
	400G QSFP-DD Open ROADM High Power	■		QSFP-DD	425 Gb/s PAM4	Dual SMF	C-Band DWDM	Tunable Tx	Coherent Rx	1800km	0 to 70°C	LC	AQE-7xxx	
400G Standard Coherent	400G QSFP-DD ZR	■		QSFP-DD	425 Gb/s PAM4	Dual SMF	C-Band DWDM	Tunable Tx	Coherent Rx	120km	0 to 70°C	LC	AQE-7xxx	15
	400G QSFP-DD OpenZR+	■		QSFP-DD	425 Gb/s PAM4	Dual SMF	C-Band DWDM	Tunable Tx	Coherent Rx	600km	0 to 70°C	LC	AQE-7xxx	23
	400G QSFP-DD ZR High Power	■		QSFP-DD	425 Gb/s PAM4	Dual SMF	C-Band DWDM	Tunable Tx	Coherent Rx	120km	0 to 70°C	LC	AQE-7xxx	23
	400G QSFP-DD OpenZR+ High Power	■		QSFP-DD	425 Gb/s PAM4	Dual SMF	C-Band DWDM	Tunable Tx	Coherent Rx	600km	0 to 70°C	LC	AQE-7xxx	23
	400G CFP2 DCO ZR	■		CFP2	425 Gb/s PAM4	Dual SMF	C-Band DWDM	Tunable Tx	Coherent Rx	120km	0 to 70°C	LC	AQE-7xxx	15
400G Direct Detect	400GBase-SR8	■		QSFP-DD	425 Gb/s PAM4	Parallel MMF	850nm	8xVCSEL	8xPIN	100m	0 to 70°C	MPO-18	AQE-70845	
	400GBase-SR4.2	■		QSFP-DD	425 Gb/s PAM4	Parallel MMF	850nm/910nm	8xVCSEL	8xPIN	100m	0 to 70°C	MPO-12	AQE-70844	
	400GBase-DR4	■		QSFP-DD	425 Gb/s PAM4	Parallel MMF	131nm	4xCWDM LD	4xPIN	500m	0 to 70°C	MPO-12/APC	AQE-70843	
	400GBase-DR4+ (4xR1)	■		QSFP-DD	425 Gb/s PAM4	Parallel SMF	131nm	4xCWDM LD	4xPIN	2km	0 to 70°C	MPO-12/APC	AQE-70841	
	400GBase-DR4+ 10km (4xLR1)	■		QSFP-DD	425 Gb/s PAM4	Parallel SMF	131nm	4xCWDM LD	4xPIN	10km	0 to 70°C	MPO-12/APC	AQE-70842	
	400GBase-FR4	■		QSFP-DD	425 Gb/s PAM4	Dual SMF	CWDM 1310nm Band	4xCWDM LD	4xPIN	2km	0 to 70°C	LC	AQE-70854	
	400GBase-LR4	■		QSFP-DD	425 Gb/s PAM4	Dual SMF	CWDM 1310nm Band	4xCWDM LD	4xPIN	10km	0 to 70°C	LC	AQE-70856	
	400GBase-LR8	■		QSFP-DD	425 Gb/s PAM4	Dual SMF	LAN-WDM 1310nm Band	8xLAN-WDM LD	8xPIN	10km	0 to 70°C	LC	AQE-70848	
	400GBase-ER4-30	■		QSFP-DD	425 Gb/s PAM4	Dual SMF	CWDM 1310nm Band	4xCWDM LD	4xAPD	30km	0 to 70°C	LC	AQE-70853	
	400GBase-ER4	■		QSFP-DD	425 Gb/s PAM4	Dual SMF	CWDM 1310nm Band	4xCWDM LD	4xAPD	40km	0 to 70°C	LC	AQE-78803	
400GBase-ER8	■		QSFP-DD	425 Gb/s PAM4	Dual SMF	LAN-WDM 1310nm Band	8xLAN-WDM LD	8xPIN+SOA	40km	0 to 70°C	LC	AQE-70849		
200G Direct Detect	2x 100GBase-CWDM	■		QSFP-DD	2x 103.1 Gb/s	Dual SMF	CWDM 1310nm Band	2x(4xCWDM LD)	2x(4xPIN)	2km	0 to 70°C	CS	AQD-7xxx	
	2x 100GBase-4WDM-10	■		QSFP-DD	2x 103.1 Gb/s	Dual SMF	CWDM 1310nm Band	2x(4xCWDM LD)	2x(4xPIN)	10km	0 to 70°C	CS	AQD-7xxx	
	200GBase-DR4	■		QSFP-DD	212.5 Gb/s	Dual SMF	LAN-WDM 1310nm Band	4xLAN-WDM LD	4xPIN	10km	0 to 70°C	LC	AQD-7xxx	
	2x 100GBase-LR4	■		QSFP-DD	212.5 Gb/s	Dual SMF	LAN-WDM 1310nm Band	2x(4xLAN-WDM LD)	2x(4xPIN)	10km	0 to 70°C	CS	AQD-7xxx	
	200GBase-ER4	■		QSFP-DD	212.5 Gb/s	Dual SMF	LAN-WDM 1310nm Band	4xLAN-WDM LD	4xPIN	10km	0 to 70°C	LC	AQD-7xxx	
	200GBase-SR4	■		QSFP56	212.5 Gb/s PAM4	Parallel MMF	850nm	4xVCSEL	4xPIN	100m	0 to 70°C	MPO-12	AQD-7xxx	
100G Proprietary Coherent	2x 100G CFP2 DCO	■		CFP2	2x 111.8 Gb/s	Dual SMF	C-Band DWDM	Tunable Tx	Coherent Rx	up to 2000km	0 to 70°C	LC	ACD-7xxx	14, 15
	100G CFP2 DCO	■		CFP2	111.8 Gb/s	Dual SMF	C-Band DWDM	Tunable Tx	Coherent Rx	up to 2000km	0 to 70°C	LC	ACD-7xxx	15
	100G CFP2 DCO ZR	■		CFP2	103.1 Gb/s	Dual SMF	C-Band DWDM	Tunable Tx	Coherent Rx	up to 80km	0 to 70°C	LC	ACC-7xxx	
	100G QSFP28 DCO	■		QSFP28	103.1 Gb/s	Dual SMF	C-Band DWDM	Tunable Tx	Coherent Rx	> 80km	0 to 70°C / -40 to 85°C	LC	ACC-7xxx	26
	100G QSFP28 DCO High Power	■		QSFP28	103.1 Gb/s	Dual SMF	C-Band DWDM	Tunable Tx	Coherent Rx	above 80km	0 to 70°C / -40 to 85°C	LC	ACC-7xxx	23, 26
	100G QSFP28 DCO High Power	■		QSFP28	103.1 Gb/s	Dual SMF	C-Band DWDM	Tunable Tx	Coherent Rx	above 80km	0 to 70°C / -40 to 85°C	LC	ACC-7xxx	23, 26
100G Direct Detect	100GBase-e(SR4)	■		QSFP28	111.8Gb/s	Parallel MMF	850nm	4xVCSEL	4xPIN	100/300m	0°C to 70°C	MPO-12	AQC-7xxx	
	100GBase-SWDM4	■		QSFP28	103.1 Gb/s	Dual SMF	850, 880, 910, 940nm	4xVCSEL	4xPIN	300m	0 to 70°C	LC	AQC-7xxx	
	100GBase-PSM4	■		QSFP28	103.1 Gb/s	Parallel SMF	1310nm	4xLD	4xPIN	500m	0°C to 70°C	MPO-12	AQC-7xxx	
	100GBase-SR-Bidi	■		QSFP28	103.1 Gb/s	Dual MMF	850/900nm	2xVCSEL	2xPIN	70m	0°C to 70°C	LC	AQC-7xxx	
	100GBase-CWDM4	■		QSFP28	111.8Gb/s	Dual SMF	CWDM 1310nm Band	4xCWDM LD	4xPIN	2km	0°C to 70°C	LC	AQC-7xxx	
	100GBase-4WDM-20	■		QSFP28	103.1 Gb/s	Dual SMF	LAN-WDM 1310nm Band	4xLAN-WDM LD	4xPIN	10km	-40 to 85°C	LC	AQC-7xxx	
	100GBase-4WDM-20	■		QSFP28	103.1 Gb/s	Dual SMF	LAN-WDM 1310nm Band	4xLAN-WDM LD	4xPIN	20km	-40 to 85°C	LC	AQC-7xxx	17
	100GBase-e(LR4)	■		QSFP28	111.8Gb/s	Dual SMF	LAN-WDM 1310nm Band	4xLAN-WDM LD	4xPIN	10/20km	-40 to 85°C	LC	AQC-7xxx	16, 17, 19
	100GBase-LR4 RX Only	■		QSFP28	103.1 Gb/s	Dual SMF	LAN-WDM 1310nm Band	n/a	4xPIN	n/a	0°C to 70°C	LC	AQC-7xxx	
	100GBase-ER4 Lite	■		QSFP28	111.8Gb/s	Dual SMF	LAN-WDM 1310nm Band	4xLAN-WDM LD	4xAPD	40km	0°C to 70°C	LC	AQC-7xxx	
	100GBase-ER4 Lite (SW)	■		QSFP28	111.8Gb/s	Dual SMF	LAN-WDM 1310nm Band	4xLAN-WDM LD	4xPIN+SOA	40km	0°C to 70°C	LC	AQC-7xxx	9, 17, 22
	100GBase-ER4 Lite RX Only	■		QSFP28	103.1 Gb/s	Dual SMF	LAN-WDM 1310nm Band	n/a	4xPIN+SOA	n/a	0°C to 70°C	LC	AQC-7xxx	
	100GBase-4WDM-40	■		QSFP28	103.1 Gb/s	Dual SMF	LAN-WDM 1310nm Band	4xLAN-WDM LD	4xAPD	40km	0°C to 70°C	LC	AQC-7xxx	10, 17, 22
	100GBase-ER4	■		QSFP28	111.8Gb/s	Dual SMF	LAN-WDM 1310nm Band	4xLAN-WDM LD	4xPIN+SOA	40km	0°C to 70°C	LC	AQC-7xxx	17, 22
	100GBase-ER4	■		QSFP28	111.8Gb/s	Dual SMF	LAN-WDM 1310nm Band	4xLAN-WDM LD	4xPIN+SOA	40km	0°C to 70°C	LC	AQC-7xxx	17, 22
100GBase-ZR4 Low Power	■		QSFP28	111.8Gb/s	Dual SMF	LAN-WDM 1310nm Band	4xLAN-WDM LD	4xPIN+SOA	80km	0 to 70°C	LC	AQC-7xxx	17, 27	
100GBase-eZR4	■		QSFP28	111.8Gb/s	Dual SMF	LAN-WDM 1310nm Band	4xLAN-WDM LD	4xPIN+SOA	100km	0°C to 70°C	LC	AQC-7xxx	17	
100G Single Lambda	100GBase-DR1	■		QSFP28	103.1 Gb/s	Dual SMF	131nm	CWDM LD	PIN	500m	0°C to 70°C	LC	AQC-7xxx	
	100GBase-FR1	■		QSFP28	103.1 Gb/s	Dual SMF	131nm	CWDM LD	PIN	2km	0°C to 70°C	LC	AQC-7xxx	
	100GBase-LR1	■		QSFP28	103.1 Gb/s	Dual SMF	131nm	CWDM LD	PIN	10km	0°C to 70°C	LC	AQC-7xxx	
	100GBase-ER1	■		QSFP28	103.1 Gb/s	Dual SMF	1309, 14nm	LAN-WDM APD	APD	40km	0°C to 70°C	LC	AQC-7xxx	
	100G nWDM-8	■		QSFP28	103.1 Gb/s	Dual SMF	O-band channels	LAN-WDM APD	APD	20km	0°C to 70°C	LC	AQC-7xxx	
100G Bidi Direct Detect	100G LR4 Bidi	■		QSFP28	103.1 Gb/s	Single SMF	LAN-WDM 1310nm Band	EML	4xPIN	10km	0 to 70°C / -40 to 85°C	LC	AQC-7xxx	25
	100G 4WDM-20 Bidi	■		QSFP28	103.1 Gb/s	Single SMF	LAN-WDM 1310nm Band	EML	4xPIN	20km	0 to 70°C / -40 to 85°C	LC	AQC-7xxx	25
	100G ZR4 Bidi	■		QSFP28	103.1 Gb/s	Single SMF	LAN-WDM 1310nm Band	4xAPD	4xPIN	40km	0 to 70°C / -40 to 85°C	LC	AQC-7xxx	25
	100G ZR4 Bidi	■		QSFP28	103.1 Gb/s	Single SMF	LAN-WDM 1310nm Band	EML	4xPIN+SOA	80km	0 to 70°C / -40 to 85°C	LC	AQC-7xxx	25
100G Single Lambda Bidi Direct Detect	100G LR1 Bidi	■		QSFP28	106.2 Gb/s	Single SMF	1270/1330nm	EML	PIN	10km	0 to 70°C / -40 to 85°C	LC	AQC-7xxx	
	100G eLR1 Bidi	■		QSFP28	106.2 Gb/s	Single SMF	1270/1330nm	EML	PIN	20km	0 to 70°C / -40 to 85°C	LC	AQC-7xxx	
	100G ER1-30 Bidi	■		QSFP28	106.2 Gb/s	Single SMF	1304.58/1306.14nm	EML	APD	30km	0 to 70°C	LC	AQC-7xxx	
	100G ER1 Bidi	■		QSFP28	106.2 Gb/s	Single SMF	1304.58/1306.14nm	EML	APD	40km	0 to 70°C	LC	AQC-7xxx	
100G Direct Detect Legacy	100GBase-LR4	■		CFP2	111.8Gb/s	Dual SMF	LAN-WDM 1310nm Band	4xEML	4xPIN	10km	0°C to 70°C	LC	ACC-7xxx	
	100GBase-ER4	■		CFP2	111.8Gb/s	Dual SMF	LAN-WDM 1310nm Band	4xEML	4xPIN+SOA	40km	0°C to 70°C	LC	ACC-7xxx	
50G Direct Detect	50GBase-FR	■		SFP56	53.125 Gb/s PAM4	Dual SMF	131nm	DFB	PIN	2km	0 to 70°C / -40 to 85°C	LC	ASL-7xxx	24
	50GBase-LR	■		SFP56	53.125 Gb/s PAM4	Dual SMF	131nm	EML	PIN	10km	0 to 70°C / -40 to 85°C	LC	ASL-7xxx	24
	50GBase-CWDM	■		SFP56	53.125 Gb/s PAM4	Dual SMF	CWDM ITU ch.	EML	PIN	10km	0 to 70°C / -40 to 85°C	LC	ASL-7xxx	24
	50GBase-DWDM	■		SFP56	53.125 Gb/s PAM4	Dual SMF	DWDM ITU ch.	EML	PIN	10km	0 to 70°C / -40 to 85°C	LC	ASL-7xxx	24
	50G Bidi 10km	■		QSFP28	53.125 Gb/s	Single SMF	1270/1310nm	DML	PIN	10km	0 to 70°C	LC	AQL-7xxx	
	50G Bidi 40km	■		QSFP28	53.125 Gb/s	Single SMF	1294/1306nm	EML	APD	10km	0 to 70°C	LC	AQL-7xxx	
	50GBase-LR	■		QSFP28	53.125 Gb/s	Dual SMF	131nm	CWDM LD	PIN	10km	0 to 70°C	LC	AQL-7xxx	
	50GBase-ER	■		QSFP28	53.125 Gb/s	Dual SMF	131nm	CWDM LD	APD	40km	0 to 70°C	LC	AQL-7xxx	
50GBase-ZR2	■		QSFP28	53.125 Gb/s	Dual SMF	LAN-WDM 1310nm Band	2xLAN-WDM LD	2xAPD	80km	0 to 70°C	LC	AQL-7xxx		
40G Direct Detect	40GBase-e(SR4)	■		QSFP+	43.0 Gb/s	Parallel MMF	850nm	4xVCSEL	4xPIN	100/300m	0 to 70°C	MPO-12	AQC-7xxx	
	40GBase-SWDM4	■		QSFP+	41.2 Gb/s	Dual SMF	850, 880, 910, 940nm	4xVCSEL	4xPIN	300m	0 to 70°C	LC	AQC-7xxx	
	40GBase-PSM4 IR4	■		QSFP+	41.2 Gb/s	Parallel SMF	1310nm	4xFP	4xPIN	1.4km	0 to 70°C	MPO-12/APC	AQC-7xxx	
	40GBase-PSM4 LR4	■		QSFP+	43.0 Gb/s	Parallel SMF	1310nm	4xDFB	4xPIN	10km	0 to 70°C	MPO-12/APC	AQC-7xxx	
	40GBase-SR-Bidi	■		QSFP+	41.2 Gb/s	Dual MMF	850/900nm	2xVCSEL	2xPIN	100m	0 to 70°C	LC	AQC-7xxx	
	40GBase-LR4	■		QSFP+	41.2 Gb/s	Dual SMF	CWDM 1310nm Band	4xCWDM DFB	4xPIN	2km	0 to 70°C	LC	AQC-7xxx	
	40GBase-LX4	■		QSFP+	41.2 Gb/s	Dual SMF/MMF	CWDM 1310nm Band	4xCWDM DFB	4xPIN	2km/150m	0 to 70°C	LC	AQC-7xxx	
	40GBase-LR4	■		QSFP+	41.2 Gb/s	Dual SMF	CWDM 1310nm Band	4xCWDM DFB	4xPIN	10km	0 to 70°C	LC	AQC-70798	
	40GBase-ER4	■		QSFP+	41.2 Gb/s	Dual SMF	CWDM 1310nm Band	4xCWDM DFB	4xAPD	40km	0 to 70°C	LC	AQC-70803	
	40GBase-ZR													