

Technical Specifications

DEM-431XT

DEM-431XT-DD

DEM-432XT



Standard		DEM-431XT	DEM-431XT-DD	DEM-432XT
Standard	Standard Compliance	IEEE-802.3ae 10GBASE-SR	IEEE-802.3ae 10GBASE-SR	IEEE-802.3ae 10GBASE-SR
	Form Factor Type	SFP+	SFP+	SFP+
	Fibre Channel FC-PI Standard	1200-Mx-SN-I	1200-Mx-SN-I	1200-SM-LL-L
	Fiber Media Support	Multi-Mode	Multi-Mode	Single-Mode
	Distance Capacity	62.5 μm, 160 MHz-km: 26 m 62.5 μm, OM1 200 MHz-km: 33 m 50 μm, 400 MHz-km: 66 m 50 μm, OM2 500 MHz-km: 82 m 50 μm, OM3 2000 MHz-km: 300 m	62.5 μm, 160 MHz-km: 26 m 62.5 μm, OM1 200 MHz-km: 33 m 50 μm, 400 MHz-km: 66 m 50 μm, OM2 500 MHz-km: 82 m 50 μm, OM3 2000 MHz-km: 300 m	10 km
Features	Hot Pluggable	✓	✓	✓
	MSA Compliant	✓	✓	✓
	RoHS Compliant	✓	✓	✓
Speed	Speed	10 Gbps	10 Gbps	10 Gbps
Interface	Connector	Duplex LC Connector	Duplex LC Connector	Duplex LC Connector
	Single/Bi-Directional	Single Direction		
	Wavelength	850 nm	850 nm	1310 nm
	Output Optical Power (TX Optical Power)	Max.: -1 dBm Min.: -6.5 dBm	Max.: -1 dBm Min.: -5 dBm	Max.: 0.5 dBm Min.: -8.5 dBm
	Input Optical Power (RX Optical Power)	Max.: -1 dBm Min.: -11.1 dBm	Max.: -1 dBm Min.: -5 dBm	Max.: 0.5 dBm Min.: -8.5 dBm
	Sensitivity	-11.1 dBm	-11.1 dBm	-12.6 dBm
	Cable Type	Multi-mode 50/125 μm or 62.5/125 μm fiber	Multi-mode 50/125 μm or 62.5/125 μm fiber	Single-mode 9/125 μm fiber
Operating	Power	3.3 V	3.3 V	3.3 V
	Maximum Input Current	3.3 V: 300 mA	3.3 V: 250 mA	3.3 V: 300 mA
	Minimum Power Budget	4.6 dB	6.1 dB	4.1 dB
	Maximum Power Budget	10.1 dB	10.1 dB	10.1 dB
	Heat Generated	3.6 kJ/h	2.9 kJ/h	3.6 kJ/h
Reliability	MTBF (Hours)	3,960,000	5,948,000	4,650,000
Function	DDM (Digital Diagnostics Monitoring)	—	✓	—
Physical and Environment	Operating Temperature	0 to 70 °C	0 to 70 °C	0 to 70 °C
	Storage Temperature	-40 to 85 °C	-40 to 85 °C	-40 to 85 °C
	Operating Humidity	5 to 85%	0 to 85%	5 to 85%
	Storage Humidity	5 to 95%	0 to 85%	5 to 95%
	Dimensions (W x D x H)	(0.58 x 2.22 x 0.47 inches) Compliant with SFF8432, 14.8 x 56.5 x 11.85 mm	(0.58 x 2.22 x 0.47 inches) Compliant with SFF8432, 14.8 x 56.5 x 11.85 mm	(0.58 x 2.22 x 0.47 inches) Compliant with SFF8432, 14.8 x 56.5 x 11.85 mm
	Weight	18 g (0.04 lbs)	22 g (0.05 lbs)	19.5 g (0.04 lbs)
	Bail Latch Color	Beige	Beige	Blue
Emission(EMI) and Safety	EMI	CE, FCC, VCCI	CE, FCC, VCCI	CE, FCC, VCCI
	Safety	UL, TUV, CDRH	CSA, TUV, CDRH	UL, TUV, CDRH

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Standard	Standard Compliance	IEEE-802.3ae 10GBASE-LR	IEEE-802.3ae 10GBASE-ER	IEEE-802.3ae 10GBASE-ER
	Form Factor Type	SFP+	SFP+	SFP+
	Fibre Channel FC-PI Standard	1200-SM-LL-L	N/A	N/A
	Fiber Media Support	Single-Mode	Single-Mode	Single-Mode
	Distance Capacity	10 km	40 km	40 km
Features	Hot Pluggable	✓	✓	✓
	MSA Compliant	✓	✓	✓
	RoHS Compliant	✓	✓	✓
Speed	Speed	10 Gbps	10 Gbps	10 Gbps
Interface	Connector	Duplex LC Connector	Duplex LC Connector	Duplex LC Connector
	Single/Bi-Directional	Single Direction		
	Wavelength	1310 nm	1550 nm	1550 nm
	Output Optical Power (TX Optical Power)	Max.: 0.5 dBm Min.: -8.2 dBm	Max.: 3 dBm Min.: -3 dBm	Max.: 4 dBm Min.: -4.7 dBm
	Input Optical Power (RX Optical Power)	Max.: 0.5 dBm Min.: -12.6 dBm	Max.: -1 dBm Min.: -14.1 dBm	Max.: -1 dBm Min.: -14.1 dBm
	Sensitivity	-12.6 dBm	-14.1 dBm	-14.1 dBm
	Cable Type	Single-mode 9/125 um fiber	Single-mode 9/125 um fiber	Single-mode 9/125 um fiber
Operating	Power	3.3 V	3.3 V	3.3 V
	Maximum Input Current	3.3 V: 285 mA	3.3 V: 500 mA	3.3 V: 400 mA
	Minimum Power Budget	4.4 dB	11.1 dB	9.4 dB
	Maximum Power Budget	17.6 dB	17.1 dB	18.1 dB
	Heat Generated	3.3858 kJ/h	5.94 kJ/h	4.752 kJ/h
Reliability	MTBF (Hours)	3,390,000	1,580,000	2,520,000
Function	DDM (Digital Diagnostics Monitoring)	✓	—	✓
Physical and Environment	Operating Temperature	-5 to 70 °C	0 to 70 °C	0 to 70 °C
	Storage Temperature	-40 to 85 °C	-40 to 85 °C	-40 to 85 °C
	Operating Humidity	0 to 85%	5 to 85%	0 to 85%
	Storage Humidity	0 to 85%	5 to 95%	0 to 85%
	Dimensions (W x D x H)	14.8 x 56.5 x 11.85 mm (0.58 x 2.22 x 0.47 inches) Compliant with SFF8432	14.8 x 56.5 x 11.85 mm (0.58 x 2.22 x 0.47 inches) Compliant with SFF8432	14.8 x 56.5 x 11.85 mm (0.58 x 2.22 x 0.47 inches) Compliant with SFF8432
	Weight	22 g (0.05 lbs)	20 g (0.04 lbs)	22 g (0.05 lbs)
	Bail Latch Color	Blue	Red	Red
Emission (EMI) and Safety	EMI	CE, FCC, VCCI	CE, FCC, VCCI	CE, FCC, VCCI
	Safety	UL, TUV, CDRH	CSA, TUV, CDRH	UL, TUV, CDRH

Technical Specifications

DEM-434XT

DEM-435XT

DEM-435XT-DD



Standard		IEEE-802.3ae 10GBASE-ZR	IEEE-802.3ae IEEE-802.3aq 10GBASE-LRM	IEEE-802.3ae IEEE-802.3aq 10GBASE-LRM
Standard	Standard Compliance	IEEE-802.3ae 10GBASE-ZR	IEEE-802.3ae IEEE-802.3aq 10GBASE-LRM	IEEE-802.3ae IEEE-802.3aq 10GBASE-LRM
	Form Factor Type	SFP+	SFP+	SFP+
	Fibre Channel FC-PI Standard	1200-SM-LL-L 10G Fiber Channel	N/A	N/A
	Fiber Media Support	Single-Mode	Multi-Mode	Multi-Mode
	Distance Capacity	80 km	62.5 um, 160MHz-km: 220 m 62.5 um, OM1, 200MHz-km: 220 m 50 um, 400MHz-km: 100 m 50 um, OM2, 500MHz-km: 220 m 50 um, OM3, 2000MHz-km: 220 m	62.5 um, 160MHz-km: 220 m 62.5 um, OM1, 200MHz-km: 220 m 50 um, 400MHz-km: 100 m 50 um, OM2, 500MHz-km: 220 m 50 um, OM3, 2000MHz-km: 220 m
Features	Hot Pluggable	✓	✓	✓
	MSA Compliant	✓	✓	✓
	RoHS Compliant	✓	✓	✓
Speed	Speed	10 Gbps	10 Gbps	10 Gbps
Interface	Connector	Duplex LC Connector	Duplex LC Connector	Duplex LC Connector
	Single/Bi-Directional		Single Direction	
	Wavelength	1550 nm	1310 nm	1310 nm
	Output Optical Power (TX Optical Power)	Max.: 4 dBm Min.: 0 dBm	Max.: 0.5 dBm Min.: -8.5 dBm	Max.: 1.5 dBm Min.: -4.5 dBm
	Input Optical Power (RX Optical Power)	Max.: -7 dBm Min.: -24 dBm	Max.: 0.5 dBm Min.: -6.5 dBm	Max.: 1.5 dBm Min.: -6.5 dBm
	Sensitivity	-24 dBm	-6.5 dBm	-6.5 dBm
	Cable Type	Single-mode 9/125 um fiber	Multi-mode 50/125 um or 62.5/125 um fiber	Multi-mode 50/125 um or 62.5/125 um fiber
Operating	Power	3.3 V	3.3 V	3.3 V
	Maximum Input Current	450 mA	3.3 V: 300 mA	3.3 V: 300 mA
	Minimum Power Budget	24 dB	2 dB	2 dB
	Maximum Power Budget	28 dB	7 dB	8 dB
	Heat Generated	5.35 kJ/h	3.6 kJ/h	3.564 kJ/h
Reliability	MTBF (Hours)	1,584,786	3,590,000	4,140,000
Function	DDM (Digital Diagnostics Monitoring)	—	—	✓
Physical and Environment	Operating Temperature	0 to 70 °C	0 to 70 °C	-5 to 70 °C
	Storage Temperature	-40 to 85 °C	-40 to 85 °C	-40 to 85 °C
	Operating Humidity	5 to 85%	5 to 85%	0 to 85%
	Storage Humidity	5 to 85%	5 to 95%	0 to 85%
	Dimensions (W x D x H)	14.3 x 56.5 x 11.85 mm (0.58 x 2.22 x 0.47 inches) Compliant with SFF8432	14.8 x 56.5 x 11.85 mm (0.58 x 2.22 x 0.47 inches) Compliant with SFF8432	14.8 x 56.5 x 11.85 mm (0.58 x 2.22 x 0.47 inches) Compliant with SFF8432
	Weight	20 g (0.04 lbs)	18.5 g (0.04 lbs)	22 g (0.05 lbs)
	Bail Latch Color	White	Brown	Brown
Emission(EMI) and Safety	EMI	CE, FCC, VCCI	CE, FCC, VCCI	CE, FCC, VCCI
	Safety	UL, TUV	UL, TUV, CDR	CSA, TUV, CDRH

Technical Specifications

DEM-436XT-BXD

DEM-436XT-BXU



Standard		IEEE-802.3ae, 10GBASE-LR	IEEE-802.3ae, 10GBASE-LR
Standard	Standard Compliance	IEEE-802.3ae, 10GBASE-LR	IEEE-802.3ae, 10GBASE-LR
	Form Factor Type	SFP+	SFP+
	Fibre Channel FC-PI Standard	N/A	N/A
	Fiber Media Support	Multi-Mode	Single-Mode
	Distance Capacity	20 km	20 km
Features	Hot Pluggable	✓	✓
	MSA Compliant	✓	✓
	RoHS Compliant	✓	✓
Speed	Speed	10 Gbps	10 Gbps
Interface	Connector	Simplex LC Connector	Simplex LC Connector
	Single/Bi-Directional	WDM Bi-directional	WDM Bi-directional
	Wavelength	TX: 1330 nm, RX: 1270 nm	TX: 1270 nm, RX: 1330 nm
	Output Optical Power (TX Optical Power)	Max.: 0.5 dBm Min.: -5.2 dBm	Max.: 0.5 dBm Min.: -5.2 dBm
	Input Optical Power (RX Optical Power)	Max.: 0.5 dBm Min.: -12.5 dBm	Max.: 0.5 dBm Min.: -12.5 dBm
	Sensitivity	-12.5 dBm	-12.5 dBm
	Cable Type	Single-mode 9/125 um fiber	Single-mode 9/125 um fiber
Operating	Power	3.3 V	3.3 V
	Maximum Input Current	3.3 V: 300 mA	3.3 V: 300 mA
	Minimum Power Budget	7.3 dB	7.3 dB
	Maximum Power Budget	13 dB	13 dB
	Heat Generated	3.6 kJ/h	3.6 kJ/h
Reliability	MTBF (Hours)	1,920,000	1,920,000
Function	DDM (Digital Diagnostics Monitoring)	—	—
Physical and Environment	Operating Temperature	-40 to 85 °C	-40 to 85 °C
	Storage Temperature	-40 to 85 °C	-40 to 85 °C
	Operating Humidity	5 to 85%	5 to 85%
	Storage Humidity	5 to 95%	5 to 95%
	Dimension (W x D x H)	(0.58 x 2.22 x 0.47 inches) Compliant with SFF8432, 14.8 x 56.5 x 11.85 mm	(0.58 x 2.22 x 0.47 inches) Compliant with SFF8432, 14.8 x 56.5 x 11.85 mm
	Weight	22 g (0.05 lbs)	22 g (0.05 lbs)
	Bail Latch Color	Blue	Blue
Emission (EMI) and Safety	EMI	CE, FCC, VCCI	CE, FCC, VCCI
	Safety	UL, TUV, CDRH	UL, TUV, CDRH



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