Technical Specifications

Power Input/Consumption	12V DC / 2.1 W
Operating Humidity:	5% to 90% non-condensing
Storage Humidity:	5% to 95% non-condensing
Operating Altitude:	Up to 3,048 m (10,000 ft)
Weight:	0.3 kg (0.66 lbs)
Dimensions:	80 mm x 120 mm x 26 mm
Operating Temperature:	0℃ to 50℃ (32℉ to 122℉)
Storage Temperature:	-25℃ to 70℃ (-13℉ to 158℉)
MTBF:	598,371 hours
MTBF (with power supply):	333,769 hours

The following applies to all Extended Temperature S-110XT media converters:

Operating Temperature:	-40℃ to 75℃ (-40℉ to 167℉)
Storage Temperature:	-40℃ to 85℃ (-40℉ to 185℉)
MTBF:	607,001 hours

Fiber Cabling Requirements:

MM:	50/125 microns or 62.5/125 microns
SM:	9/125 microns

Ethernet Copper Cabling Requirements:

- Category 5 UTP or STP
- 24-22 AWG
- Straight through or Ethernet crossover

NOTE: Please refer the product page on the Perle website for the most up to date specifications.

http://www.perle.com/

Fiber Optic Specifications:

Model	Mode	Wavelength (nm)	TX Power (dB)	RX Power (dB)	Budget (dB)
S-110-M2SC2 (XT)	MM	TX: 1310 RX: 1310	Min: -20 Max: -12	Min: -31 Max: -14	11
S-110-M2ST2 (XT)	MM	TX: 1310 RX: 1310	Min: -20 Max: -12	Min: -31 Max: -14	11
S-110-M2LC2 (XT)	MM	TX: 1310 RX: 1310	Min: -20 Max: -12	Min: -30 Max: -14	10
S-110-S2SC20 (XT)	SM	TX: 1310 RX: 1310	Min: -18 Max: -7	Min: -32 Max: -3	14
S-110-S2ST20 (XT)	SM	TX: 1310 RX: 1310	Min: -15 Max: -8	Min: -32 Max: -3	17
S-110-S2LC20 (XT)	SM	TX: 1310 RX :1310	Min: -15 Max: 0	Min: -34 Max: -5	19
S-110-S2SC40	SM	TX: 1310 RX :1310	Min: -5 Max: 0	Min: -34 Max: -3	29
S-110-S2ST40	SM	TX: 1310 RX :1310	Min: -5 Max: 0	Min: -34 Max: -3	29
S-110-S2LC40	SM	TX: 1310 RX :1310	Min: -5 Max: 0	Min: -34 Max: -3	29
S-110-S2SC80	SM	TX: 1550 RX: 1550	Min: -5 Max: 0	Min: -34 Max: -3	29
S-110-S2ST80	SM	TX: 1550 RX: 1550	Min: -5 Max: 5	Min: -34 Max: -3	29
S-110-S2LC80	SM	TX: 1550 RX: 1550	Min: -5 Max: 0	Min: -34 Max: -3	29
S-110-S2SC120	SM	TX: 1550 RX: 1550	Min: 0 Max: 5	Min: -35 Max: -3	35
S-110-S2ST120	SM	TX: 1550 RX: 1550	Min: 0 Max: 5	Min: -35 Max: 0	35
S-110-S2LC120	SM	TX: 1550 RX: 1550	Min: 0 Max: 5	Min: -35 Max: -3	35
S-110-S1SC20U (XT)	SM	TX: 1310 RX: 1550	Min: -14 Max: -8	Min: -32 Max: -3	18
S-110-S1SC20D (XT)	SM	TX: 1550 RX:1310	Min: -14 Max: -8	Min: -32 Max: -3	18
S-110-S1SC40U	SM	TX: 1310 RX:1550	Min: -8 Max: -3	Min: -33 Max: -3	25
S-110-S1SC40D	SM	TX: 1550 RX:1310	Min: -8 Max: -3	Min: -33 Max: -3	25

Compliance Information

FCC

This product has been found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions in this Guide, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his/her own expense.

EN 55022, Class B

EN 55024, Class A

Note: When used with a power adapter providing low conducted emissions, the S-110 will comply with Class B requirements.

Laser Safety – IEC 60825-1:2007

This product meets Class I Laser safety requirements per IEC-60825-1:2007 standard and complies with FDA/CDRH 21 CFR1040.10 and 21 CFR1040.11.
WARNING: Visible and invisible laser radiation may be present when cables are not connected. Do not stare into the beam or view the beam directly with optical instruments. Failure to observe this warning could result in an eye injury or blindness.
WARNING: Use of controls, adjustments or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

Warranty / Registration

Perle's standard Lifetime Warranty provides customers with return to factory repairs for Perle products that fail under the conditions of the warranty coverage. Details can be found at:

http://www.perle.com/support_services/warranty.shtml

Contacting Technical Support

Contact information for the Perle Technical Assistance Center (PTAC) can be found at the link below. A Technical Support Query may be made via this web page.

www.perle.com/support_services/support_request.shtml

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