VIAVI

Certifier40G

Specifications

Parameter	Performance
Copper Testing (NGC-4500-FA kits)	
Certification testing	TIA 568-C.2 CAT 5e, 6, 6A, draft CAT 8 ISO/IEC 11801, EN 50173 Class D, E, EA, F, FA draft Class I and Class II Permanent link and channel
Autotest time – Cat6A/Class EA	9 s
Autotest time – Class FA	15 s
Maximm cable length for dual-ended autotest	500 m
Insertion cycles (typical)	Channel: 10,000 Permanent link: 5,000
Test parameters	As specified in TIA 1152, IEC 61935-1
Wiremap	
Loop resistance	0 to 40 Ω, ±0.1 Ω
Length	0 to 500 m, ±0.5 m (dual-ended testing)
Propagation delay and delay skew	0 to 5000 ns, ±1 ns
Attenuation	0 to 70 dB, ±0.1 dB
Pair-to-pair and power sum NEXT	0 to 85 dB, ±0.2 dB
Pair-to-pair and power sum ACR-F	0 to 85 dB, ±0.2 dB
Return loss	0 to 40 dB, ±0.2 dB
ACRN, PS ACRN	−25 to 85 dB, ±0.5 dB
Advanced diagnostics	Time-domain fault locator for RL and NEXT (200 m)
Measurement accuracy	ANSI/TIA-1152 Level IIIe, IEC 61935-1 Level V
Measurement frequency range	1 to 2,500 MHz

Parameter	Performance
Fiber Testing – Multimode Encircled Flux Tier 1 (Loss/Length) Test Probes	
Wavelengths	850 nm, 1300 nm
Autotest time	6 seconds for dual-ended test
Test standards	TIA-568.3, IEC 14763-3, ISO 11801, Network Limits
Measurement length	0 to 1,000 m, ±1.5 m
Transmitter	
Connector type	FC
EF compliance	IEC 31280-4-1
Power	−16 to −20 dBm
Source type	LED
Spectral width	±15 nm
Receiver	
Connector type	Interchangeable (SC, LC, ST)
Dynamic range	12 dB
Sensitivity	−40 dBm
Resolution	0.1 dB
Visual fault locator	
Wavelength	650 nm
Power	0 dBm

Parameter	Performance
Fiber Testing – Single-Mode Tier 1 (Loss/Length) Test Probes	
Wavelengths	1310 nm, 1550 nm
Autotest time	6 seconds for dual-ended test
Test standards	TIA-568.3, IEC 14763-3, ISO 11801, Network Limits
Measurement length	0 to 10,000 m, ±1.5 m
Transmitter	
Connector type	SC
Power	−5 dBm to −9 dBm
Source type	Laser
Receiver	
Connector type	SC (Adapters for LC available)
Dynamic range	31 dB
Sensitivity	−40 dBm
Resolution	0.1 dB

Parameter	Performance
General Specifications	
Interfaces	Probe Interface, RJ45 Ethernet, USB host and device, talkset, power jack
Display	6" industrial LCD, touch sensitive area on both units
Enclosure	Ruggedized plastic with rubber over-mold, withstands 1.5 m drop test on hard surface
Remote unit capabilities	View test results, edit labels, save results, start autotest
Power supply	AC 100 to 240 V to 12 V, 3 A power adapter
Input over-voltage protection	Protected against Telco voltages
Battery	Removable and rechargeable LiON Battery capacity >8 hours continuous operation
Internal storage capacity	700 MB
Dimensions	232 X 126 X 87 mm (9.1 X 5.0 X 3.4 in)
Weight	Approx. 1.4 kg (3.0 lb) per unit
Supported languages	Device supports 16 languages: Chinese, Traditional Chinese, Czech, English, Finnish, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Swedish, Turkish
Calibration period	1 year (copper calibration stored on mainframe, fiber calibration stored on fiber test probes)
Environmental	
Operating temperature	0 to 40°C
Storage temperature	−20 to 60°C
Relative humidity	10% to 80%