



# Certifier

## Specifications

Parameter	Performance
<b>Copper Testing</b>	
Certification testing	TIA 568-C.2 Cat 5e, 6, 6A ISO/IEC 11801, EN 50173 Class D, E, EA  Additionally Certifier40G supports TIA 568-C.2-1 Cat 8 ISO/IEC 11801, EN 50173 Class F, FA
Autotest time – Cat6A/Class EA	12 s
Autotest time – Class FA	19 s
Maximum 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 $\Omega$ , $\pm 0.1 \Omega$
Length	0 to 500 m, $\pm 0.5$ m (dual-ended testing)
Propagation delay and delay skew	0 to 5000 ns, $\pm 1$ ns
Attenuation	0 to 70 dB, $\pm 0.1$ dB
Pair-to-pair and power sum NEXT	0 to 85 dB, $\pm 0.2$ dB
Pair-to-pair and power sum ACR-F	0 to 85 dB, $\pm 0.2$ dB
Return loss	0 to 40 dB, $\pm 0.2$ dB
ACRN, PS ACRN	-25 to 85 dB, $\pm 0.5$ dB
Advanced diagnostics	Time-domain fault locator for RL and NEXT (200 m)
Measurement accuracy	ANSI/TIA-1152 Level 2G, IEC 61935-1 Draft Level VI (Certifier40G)  ANSI/TIA-1152 Level IIIe, IEC 61935-1 Level IIIe (Certifier10G)
Measurement frequency range	1 to 2,500 MHz (Certifier40G) 1 to 500 MHz (Certifier10G)

Parameter	Performance
<b>Fiber Testing – Multimode Encircled Flux Tier 1 (Loss/Length) Test Probes (Certifier40G only)</b>	
Wavelengths	850 nm, 1300 nm
Autotest time	10 seconds for dual-ended test
Test standards	TIA-568.3, IEC 14763-3, ISO 11801, Network Limits
Measurement length	0 to 1,000 m, $\pm 1.5$ m
Transmitter	
Connector type	FC
EF compliance	IEC 61280-4-1, TIA-526-14C
Power	-16 to -20 dBm
Source type	LED
Spectral width	$\pm 15$ nm
Receiver	
Connector type	Interchangeable (SC, LC, ST)
Dynamic range	12 dB
Sensitivity	-40 dBm
Resolution	0.01 dB
Visual fault locator	
Wavelength	650 nm
Power	0 dBm

Parameter	Performance
<b>Fiber Testing – Single-Mode Tier 1 (Loss/Length) Test Probes (Certifier40G only)</b>	
Wavelengths	1310 nm, 1550 nm
Autotest time	10 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	0.01 dB
<b>Fiber Testing – Multimode MPO/MTP Light Source/Power Meter Kit (Certifier40G only)</b>	
Autotest	
Test time	5 s
Test parameters	Loss per channel in graphical and tabular format, polarity of link (A, B, C, Custom), pass/fail against user set limit
MPO link configurations	All 12 fibers or user-selected channels
Test configurations	MPO-MPO MPO-SC/LC (Requires duplex multimode fiber adapter on local unit)
MPO Light Source Adapter	
Fiber/connector type	Multimode MPO (Type A, pinned)
Wavelength	830 – 860 nm
MPO Power Meter Adapter	
Fiber/connector type	Multimode MPO (Type A, pinned)
Loss Measurement	
Dynamic range	15 dB
Accuracy	±0.2 dB
Verification period	Yearly verification recommended (copper calibration stored on mainframe, fiber calibration stored on fiber test probes)

Parameter	Performance
<b>General Specifications</b>	
Interfaces	Probe Interface, RJ45 Ethernet, USB host and device, talkset, power jack
Display	Industrial LCD, 6" touch sensitive area on both local and remote 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 kg (2.2 lb) per unit
Supported languages	Device supports 17 languages: Chinese, Traditional Chinese, Czech, English, Finnish, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Swedish, Turkish, Hungarian
Calibration period	1 year (copper calibration stored on mainframe, fiber calibration stored on fiber test probes)
<b>Environmental</b>	
Operating temperature	0 to 40°C
Storage temperature	-20 to 60°C
Relative humidity	10% to 80%



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