HL5208 Ruggedized Signal Path Analyzer™

Features and Technical Specifications

Number of Channels	4 differential pairs (8 channels)
Measurement Types	TDR, TDT, crosstalk, return loss, insertion loss
Rise Time (10-90%)	200 ps stimulus, 200 ps sampler
Bandwidth	1.5 GHz
Time Base Range	75 ns, ± 5% accuracy
Time Resolution	2.3 ps
Functional Range	Systems up to 5 m
Distance Resolution	Within ≈ 4 cm
Amplitude	± 250 mV
Aberrations	+10%, -5%, max 15% peak-to-peak in first 1 ns +3%, -3%, max 5% peak-to-peak after 1 ns
Calibration	Software calibration to internal (± 1 Ω at 50 Ω) or external reference cable
Static Sensitivity	Complies with Class 2 of ESDS Component Sensitivity Classification (ESD STM5.1-1998)
Output Connector	8 x SMA Jack
Interface	Powered and controlled via one USB cable
XTDR™ Software	Included, Windows only
Horizontal Scaling	Meters, feet, time (ns), frequency (GHz)
Vertical Scaling	mV, Rho, normalized, impedance
Dielectric Constant	Selectable, 1.0 to 10.0
Dimensions	176.3 x 107.9 x 61.7 mm | 6.94″ x 4.25″ x 2.43″
Weight	600 g | 21.16 oz
Temperature Limits	0° to +40° C, operating | -40° to +85° C, storage

PRODUCT SUMMARY

The HL5208 measures TDR, TDT, NEXT, FEXT, return loss, and insertion loss in cables, interconnects, and PCB traces.

DEPLOYMENT NOTES

This product complies with Class 2 of ESDS Component Sensitivity Classification (ESD STM5.1-1998). Additional static protection is not required in most test environments.

In particularly harsh environments, the GROUND port on this instrument can be connected to a wrist strap for additional static protection.

WARRANTY

All HYPERLABS products carry a limited 1 year warranty. Damage from ESD is not covered by the warranty. Please see our website for details.