

HL5216 Ruggedized Signal Path Analyzer™

Features and Technical Specifications

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|---------------------|---|
| Number of Channels | 8 differential pairs (16 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 | 2 x HDMI-A |
| 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 | 170.9 x 107.9 x 61.7 mm 6.73" x 4.25" x 2.43" |
| Weight | 566 g 20 oz |
| Temperature Limits | 0° to +40° C, operating -40° to +85° C, storage |



PRODUCT SUMMARY

The HL5216 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.