



"Results You Can Count On"

Model 458-LM-E1-30-04 Multi-Standard Local Loop Simulator with Optional AWGN Generator

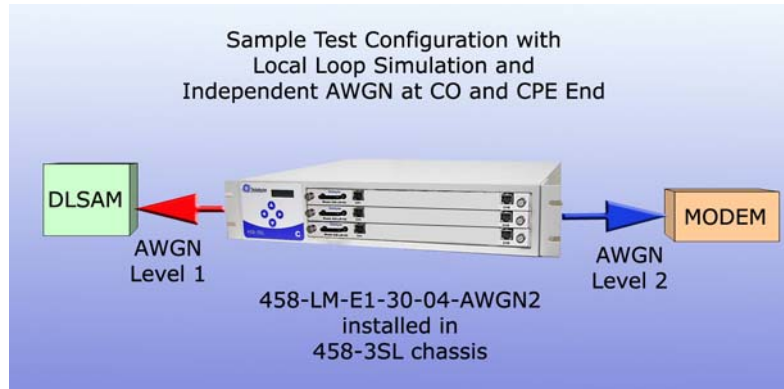
- **Simulates 0.4mm PE as specified in ETSI TS 101 388**
- **Bandwidth DC to 30 MHz**
- **Solution for ADSL, ADSL2, ADSL2+, & VDSL2 chip/modem/DSLAM testing**
- **Loop lengths programmable from 0 to 9,000 m in 10-m increments**
- **Plugs into our Model 458-CC-16 (16-slot) or 458-3SLB (3-Slot) chassis**
- **Loop Lengths and AWGN levels can be controlled manually via front panel of chassis, or remotely via RS-232, Ethernet or IEEE-488 (GPIB)**
- **Control using 458 Universal GUI software**
- **Optional White Noise (AWGN) Generator (-90 dBm/Hz to -145 dBm/Hz)**



The Model 458-LM-E1-30-04 Multi-Standard Local Loop Simulator is the ideal solution for ADSL, ADSL2, ADSL2+, and VDSL2 chip/modem/DSLAM testing out to 9,000 meters in very small increments. Optional noise modules may be ordered that add in AWGN on the CO and/or CPE side, depending on the configuration purchased. The ultimate configuration allows for common or independent noise levels on both sides.

This powerful local loop simulator is plugged into our Model 458-3SLB (3-Slot) or 458-CC-16 (16 Slot) chassis where settings are controlled by a convenient keypad located on the front, RS-232, Ethernet or IEEE-488(GPIB). The modular design of Telebyte's products allows the 458-LM-E1-30-04 to be combined with other line modules for a wide variety of test configurations.

Model 458-LM-E1-30-04 Multi-Standard Local Loop Simulator with Optional AWGN Generator (continued)



Ordering Options		
458-LM-E1-30-04	Multi-Standard Local Loop Simulator	Local Loop without noise
458-LM-E1-30-04-AWGN1	Multi-Standard Local Loop Simulator with (1) AWGN Generator Module	Local Loop with one noise source at the CO and/or CPE end
458-LM-E1-30-04-AWGN2	Multi-Standard Local Loop Simulator with (2) AWGN Generator Modules	Local Loop with two independent noise sources at the CO and/or CPE end

Product Specifications	
Simulation	<ul style="list-style-type: none"> • Accurately simulates attenuation and impedance • Full bidirectional operation at all specified frequencies • 0.4mm PE as specified in ETSI TS 101 388 • Optional White Noise (AWGN) Generator
Bandwidth	DC to 30 MHz
Attenuation Accuracy (when source and load impedances are 100 ohms)	MAE < 1 dB 20 kHz to 30 MHz
Maximum Attenuation	> 90 dB
Impedance Accuracy	Typically +/- 10% 20 kHz to 30 MHz
Maximum Voltage Tip – Ring	200 V
Maximum Current	130 mA
Connectors	2 RJ-45's on front
Optional White Noise (AWGN) Generator (factory-installed sub-module)	-90 dBm/Hz to -145 dBm/Hz in 0.25 dBm increments

Specifications are subject to change without notice. Made in USA.