



“Results You Can Count On”

**Model 458-LM-A1-30
Multi-Standard Local Loop Simulator
with Optional AWGN Generator**

- **Simulates 26 AWG PIC as specified in ANSI T1.417**
- **Bandwidth DC to 30 MHz**
- **Solution for ADSL, ADSL2, ADSL2+, & VDSL2 chip/modem/DSLAM testing**
- **Loop lengths programmable from 0 to 24,000 ft in 25-ft 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)**



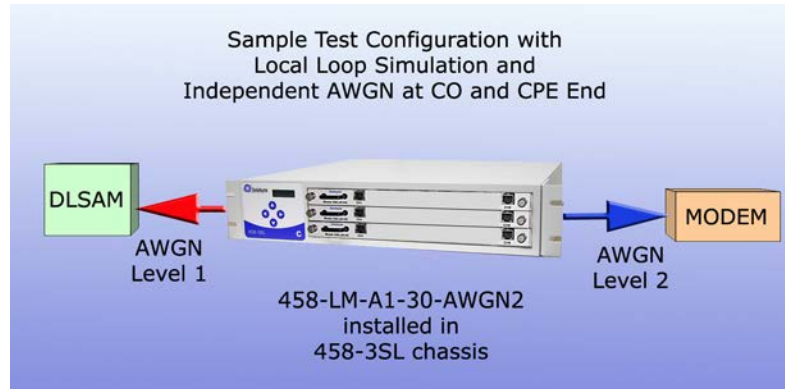
The Model 458-LM-A1-30 Multi-Standard Local Loop Simulator is the ideal solution for ADSL, ADSL2, ADSL2+, and VDSL2 chip/modem/DSLAM testing out to 24,000 feet in very small increments. Optional noise modules may be ordered that add in AWGN on the CO and/or CPE side. The ultimate configuration allows 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-A1-30 to be combined with other line modules for a wide variety of test configurations.



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Model 458-LM-A1-30
Multi-Standard Local Loop Simulator
with Optional AWGN Generator (continued)



Ordering Options		
458-LM-A1-30	Multi-Standard Local Loop Simulator	Local Loop without noise
458-LM-A1-30-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	• Accurately simulates attenuation and impedance • Full bidirectional operation at all specified frequencies • 26 AWG PIC as specified in ANSI T1.417 • 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 (add-on sub-module)	-90 dBm/Hz to -145 dBm/Hz in 0.25-dBm increments

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