



"Results You Can Count On"

**Model 458-LM-E1-30-TP100
Multi-Standard Local Loop Simulator
with Optional AWGN Generator**

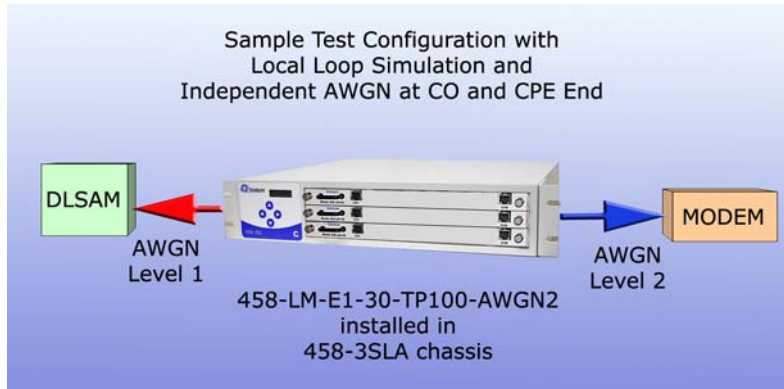
- **Simulates TP100 as specified in ETSI TS 101 270-1 & G.992.5 Annex M**
- **Bandwidth DC to 30 MHz**
- **Ideal for testing ADSL, ADSL2, ADSL2+, VDSL2 chips/modems/DSLAMs**
- **Loop lengths programmable from 0 to 9,000 m in 10-m increments**
- **Plugs into our Model 458-CC-16 (16-slot) or 458-3SLx (3-Slot) 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)**
- **Optional White Noise (AWGN) Generator (-90 dBm/Hz to -145 dBm/Hz)**



The Model 458-LM-E1-30-TP100 Multi-Standard Local Loop Simulator is the ideal solution for ADSL, ADSL2, ADSL2+, and VDSL2 chip/modem/DSLAM testing out to 9,000 m in very small increments. Optional noise may be ordered that adds in variable AWGN on the CO and CPE side, allowing for common or independent noise levels on both sides.

This powerful local loop simulator is plugged into our Model 458-3SLx (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-TP100 to be combined with other line modules for a wide variety of test configurations.

Model 458-LM-E1-30-TP100 Multi-Standard Local Loop Simulator with Optional AWGN Generator (continued)



Ordering Options		
458-LM-E1-30-TP100	Multi-Standard Local Loop Simulator	Local Loop without noise
458-LM-E1-30-TP100-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 • TP100 as specified in ETSI TS 101 270-1 & G.992.5 Annex M • 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.