



**"Results You Can Count On"**

**Model 458-LM-E1-36-TP100  
Multi-Standard Local Loop Simulator  
Supports VDSL2 Profile 35b and TR-114i3**

- **Simulates TP100 as specified in ETSI TS 101 270-1 & G.992.5 Annex M**
- **Bandwidth DC to 36 MHz**
- **Line lengths from 0 – 9,000 m in 10-m steps**
- **Solution for ADSL, ADSL2, ADSL2+, & VDSL2 (including Profile 35b)**
- **Ideal for testing TR-114 Issue 3**
- **Plugs into our Model 458-CC (16-slot) or 458-3SLB (3-Slot) chassis**
- **Loop Lengths controlled manually via front panel of chassis, or remotely via RS-232, Ethernet, IEEE-488 (GPIB), or 458 Universal GUI**



The Model 458-LM-E1-36-TP100 Multi-Standard Local Loop Simulator is the ideal solution for ADSL, ADSL2, ADSL2+, and VDSL2 chip/modem/DSLAM testing. This single-pair loop simulator can simulate PE04 for ADSL, ADSL2, ADSL2+ and VDSL2 (including Profile 35b).

This versatile 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). In addition, the user-friendly 458 Universal GUI may be used for remote control. The modular design of Telebyte's products allows the 458-LM-E1-36-TP100 to be combined with other line modules for a wide variety of test configurations.

A bundle of the 458-3SLB, 458-LM-E1-36-04 and 458-LM-E1-36-TP100 is the most cost effective solution on the market for testing the loops in Annex B of TR-114 Issue 3.



## Model 458-LM-E1-36-TP100 Multi-Standard Local Loop Simulator (continued)

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<b>Product Specifications</b>	
<b>Simulation</b>	<ul style="list-style-type: none"><li>• Accurately simulates attenuation and impedance</li><li>• Full bidirectional operation at all specified frequencies</li><li>• TP100 as specified in ETSI TS 101 270-1 &amp; G.992.5 Annex M</li></ul>
<b>Bandwidth</b>	0.4mm PE: DC to 36 MHz
<b>Attenuation Accuracy</b>	TR-114 Issue 3 TP100 test loops (150m, 300m, 450m, 600m, 900m, 1050m, 1200m, 1500m, 2000m, 2500m, 3000m) MAE < 0.5dB  All other loop lengths TP100: Typically MAE < 1 dB 20 kHz to 36 MHz (when source and load impedances are 100 ohms)
<b>Maximum Attenuation</b>	> 90 dB
<b>Impedance Accuracy</b>	Typically +/- 10%
<b>Maximum Voltage Tip – Ring</b>	200 V
<b>Maximum Current</b>	130 mA
<b>Connectors</b>	2 RJ-45's on front

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