



"Results You Can Count On"

The Model 458 Series



- **Wide variety of technologies/configurations**
- **Plug-In functionality**
- **Select from two chassis designs:**
 - 1-3 Slots or 1-16 Slots
- **Loop Simulation, Noise Generation, Test Automation accessories**
- **Interface to PC via IEEE, RS-232 or Ethernet**
- **Low noise floor / low crosstalk**

All of our reliable 458 Loop Simulators can be plugged into our 458 chassis to create a wide variety of configurations. Compact design allows for up to 24 channels in a 2U-high unit (458-3SLA) or 128 channels (458-CC-16/458-CM) in a 7U-high unit. Other features include full bi-directional operation at all specified frequencies, low noise floor, and control via GUI, RS-232, IEEE or Ethernet. Accommodates a wide variety of cable types and bandwidths to accurately simulate today's technologies.

Chassis also accommodate:

The 458-SM-2-16 (2 x 16 Transparent Switching Module) multiplexing/demultiplexing device used to automate testing of ADSL, ADSL2, ADSL2+ and VDSL2 chips, modems and DSLAMs.

The Model 458-AWGN2 (Dual Output AWGN Generator Line Module) injects Additive White Gaussian Noise (AWGN) for ADSL, ADSL2, ADSL2+, and VDSL2 chip/modem/DSLAM testing applications. The user may add AWGN on the CO and/or CPE side, depending on their application.



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The Model 458 Series (continued)

Loop Simulation:

Line Module	Technology	Noise Sources	CHs	Cable	Lengths/Increments	Bndwth DC To:
458-LM-HDJ	ADSL, ADSL2, ADSL2+	0	8	0.4 mm Paper	0 km to 7.5 km/500-m	4.0 MHz
458-LM-HD	ADSL, ADSL2, ADSL2+	0	8	26 AWG PIC	Channel 1: 0 - 31,750 ft/250 ft Channel 2-8: 0-30,000 ft/2,000 ft	4.5 MHz
458-LM-HDE	ADSL, ADSL2, ADSL2+	0	8	0.4 mm PE	Channel 1: 0 - 9,450/150 m Channel 2-8: 0-9,000/600 m	4.5 MHz
458-LM-A2-18-TF	ADSL, ADSL2, ADSL2+, VDSL, VDSL2 (supports up to Profile 17a)	0	2	24/26 AWG	0-16,000 ft/100 ft	18 MHz
458-LM-A8-18	ADSL, ADSL2, ADSL2+, VDSL, VDSL2 (supports up to Profile 17a)	0	8	26 AWG PIC	0-15,000 ft/1,000 ft	18 MHz
458-LM-E2-18	ADSL, ADSL2, ADSL2+, VDSL, VDSL2(supports up to Profile 17a)	0	2	0.4/0.5 mm PE	0-8,000 m/50 m	18 MHz
458-LM-A1-30 (AWGN 1,2)	ADSL, ADSL2, ADSL2+, VDSL, VDSL2	0, 1, 2	1	26 AWG PIC	0 to 24,000 ft/25-ft	30 MHz
458-LM-E1-30-04 (AWGN 1,2)	ADSL, ADSL2, ADSL2+, VDSL, VDSL2	0, 1, 2	1	0.4mm PE	0 to 9,000 m/10-m	30 MHz
458-LM-A8-30	ADSL, ADSL2, ADSL2+, VDSL, VDSL2	0	8	26 AWG PIC	0-15,000 ft/1,000 ft	30 MHz
458-LM-E8-30	ADSL, ADSL2, ADSL2+, VDSL, VDSL2	0	8	0.4 mm PE	0-4,500 m/300 m	30 MHz
458-LM-A2-36	ADSL, ADSL2, ADSL2+, VDSL, VDSL2	0	2	24/26 AWG	0-3,150 ft /50 ft	36 MHz
458-LM-A8-36	ADSL, ADSL2, ADSL2+, VDSL, VDSL2	0	8	26 AWG PIC	0-7,500 ft /500 ft	36 MHz
458-LM-E2-36	ADSL, ADSL2+, VDSL2	0	2	0.4/0.5 mm PE	0-1,575 m/25 m	36 MHz
458-LM-E8-36	ADSL, ADSL2, ADSL2+, VDSL, VDSL2	0	8	0.4 mm PE	0-2,250 m/150 m	36 MHz

Test Automation:

Line Module	Technology	
458-SM-2-16	ADSL, ADSL2, ADSL2+, VDSL, VDSL2	2 x 16 Transparent Switching Module for Multiplexing/Demultiplexing

Noise Generation:

Line Module	Technology	Noise Sources		Bndwth
458-AWGN2	ADSL, ADSL2, ADSL2+, VDSL, VDSL2	0, 1, 2	Dual Output AWGN Generator Line Module (adds white noise to CO and/or CPE side)	20 kHz to 30 MHz

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