



"Results You Can Count On"

Model 458 Module Series



- **Loop Simulation up to 36 MHz**
- **Test automation (multiplexing/de-multiplexing)**
- **AWGN generation**
- **TR-127 Ring Trip/Splitter Testing**
- **Plug-In modularity**
- **Multiple configurations possible**
- **1, 2 or 8 Channels**
- **Optional Noise Sources**
- **Low noise floor / low crosstalk**

All of our reliable 458 Loop Simulators plug into our Model 458-3SLx (3-Slot Chassis) or Model 458-CC-16/458-CM (16-Slot Chassis & Control Module) to create a wide variety of test configurations. The use of high-precision inductors, resistors and capacitors facilitates full bi-directional operation at all specified frequencies. Bandwidths up to 36 MHz accommodate the latest technologies.

Also available in this format, the 458-SM-2-16 (2 x 16 Transparent Switching Module), a highly-accurate multiplexing/demultiplexing device used to automate testing of ADSL, ADSL2, ADSL2+ and VDSL2 chips, modems and DSLAMs. In addition, 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. Finally, the 458-RT Ring Trip Interference/AWGN Generator is used to simulate Ring Trip interference for TR-127 splitter testing.



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Model 458 Module 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-A1-30-DC	ADSL, ADSL2, ADSL2+, VDSL, VDSL2	0	1	26 AWG PIC	0 to 21,000 ft/100-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-E1-30-04-DC	ADSL, ADSL2, ADSL2+, VDSL, VDSL2	0	1	0.4mm PE	0 to 6,350 m/25-m	30 MHz
458-LM-E1-30-TP100 (AWGN2)	ADSL, ADSL2, ADSL2+, VDSL, VDSL2	0, 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:

458-SM-2-16	ADSL, ADSL2, ADSL2+, VDSL, VDSL2	2 x 16 Transparent Switching Module for Multiplexing/Demultiplexing
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AWGN Generation:

458-AWGN2	ADSL, ADSL2, ADSL2+, VDSL, VDSL2	Dual Output AWGN Generator Line Module
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Ring Trip Interference Simulation:

458-RT	TR-127 Splitter Testing	Ring Trip Interference, AWGN & Local Loop Testing (requires 458-3SLB or 458-CC-16/458-CM)
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Refer to individual datasheets for detailed information.