



“Results You Can Count On”

Model 458-3SLA (3-Slot Chassis)

- **Accepts One, Two or Three Plug-In Line Modules**
- **Control up to 24 Channels in One Compact Unit**
- **Includes Chassis and Control Module**
- **RS-232, Ethernet or IEEE-488 Interface**



- **CE Certified**
- **Upgrade Software in the Field**

This compact, versatile unit accepts 1, 2 or 3 line modules and controls from 1 - 24 channels. The Telebyte Model 458-3SLA is ideal for testing DSL modems and other bandwidth-compliant telecom devices in a high-volume production environment. While it can be used as a stand-alone unit, the built-in Control Module interfaces with a PC via RS-232, IEEE-488, or Ethernet. Line lengths and configuration settings appear on an LCD display on the front of the unit and can be set via a keypad. For added convenience, the Control Module firmware is field-upgradeable through the RS-232 port.

The Model 458-3SLA is used with our advanced 458 Line Modules to simulate several cable types and offer the bandwidth requirements for today's xDSL technologies such as varieties of ADSL, ADSL2+ and VDSL2. User-friendly GUIs (included with line modules) provide another means of controlling loop lengths and communication parameters.

- The 458-3SLA is an updated version of the 458-3SL. It is designed to provide sufficient power to our line modules with noise sources (e.g., 458-LM-A1-30-AWGN1, 2). This version of our 3-slot chassis is required when installing more than 2 of these line modules in the chassis.



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Product Specifications (Chassis and Control Module)	
Controls	Keypad for setting loop lengths and IEEE-488 address, RS-232, or Ethernet communication parameters.
Indicators	Backlit LCD display of line length and set up parameters.
Power	Manually selectable 100 - 240 VAC, 50 or 60 Hz
Size	[2U] 19 in W x 22 in D x 3.47 in H (482.6 mm W x 558.8 mm D x 88.1 mm H)
Environmental	Operating: +32 F to +122 F (0 to +50 degrees C) Storage: 0 to 95% relative humidity (non-condensing)
Remote Control Connectors	RS-232: DB9 female (DCE); GPIB:IEEE488 24-pin connector. Ethernet: RJ-45
Plug-In Compatibility	Accepts one, two or three 458 Line Modules

Specifications are subject to change without notice. Made in USA

The Model 458-3SLA is used with these products for 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

The Model 458-3SLA is used with these products for Test Automation:

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

The Model 458-3SLA is used with these products to add Additive White Gaussian Noise to any Loop Simulator or Real Cable:

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

Refer to individual datasheets for detailed information.