



"Results You Can Count On"

Model 458-3SLB (3-Slot Chassis)

- **Accepts Up to Three 458 Plug-In Modules**
- **Control up to 24 Channels in One Compact Unit**
- **Includes Chassis and Built-In Control Module**
- **RS-232, Ethernet or IEEE-488 Interface**
- **Includes 458 Universal GUI Software**
- **Upgrade firmware in the Field**



This compact, versatile unit accepts 1, 2 or 3 line modules or other products that use Telebyte's convenient line module form factor. At home in the lab or a high-volume production environment, it is capable of controlling from 1 - 24 channels and is ideal for testing DSL modems and other bandwidth-compliant telecom devices. 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. In addition, the 458 Universal GUI (included with purchase) may be used to control the unit from a PC. For added convenience, the Control Module firmware is field-upgradeable through the RS-232 port.

Telebyte's 458 line modules simulate several cable types and offer the bandwidth requirements for today's xDSL technologies such as varieties of ADSL, ADSL2+ and VDSL2. Line lengths and configuration settings appear on an LCD display on the front of the unit and can be set via a keypad. We also offer other modules that work with our 458-3SLB, including the 458-SM-2-16 Transparent Switching Module, 458-AWGN2 Dual Output AWGN Generator Line Module and the 458-RT Ring Trip Interference Simulator.

The 458-3SLB fully replaces all previous Telebyte 3-slot chassis.



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Model 458-3SLB (3-Slot Chassis) Specifications

458-3SLB 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	88 to 264 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 plug-in modules.

Specifications are subject to change without notice. Made in USA



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Model 458-3SLB (3-Slot Chassis) Companion Products

Loop Simulation:

Line Module	Technology	Noise Sources	CHs	Cable	Lengths/Increments	Bndwidth DC To:
458-LM-E8-2	G.SHDSL	0	8	PE04	0 to 4,500 m/300 m	2 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-A8-18A	ADSL, ADSL2, ADSL2+, VDSL, VDSL2 (up to Profile 17a)	0	8	26 AWG PIC	0-15,000 ft/1,000 ft	18 MHz
458-LM-A1-30 (AWGN2)	ADSL, ADSL2, ADSL2+, VDSL, VDSL2	0, 2	1	26 AWG PIC	0 to 24,000 ft/25-ft	30 MHz
458-LM-A1-30-TR114 (incl. Bridged Tap)	ADSL, ADSL2, ADSL2+, VDSL, VDSL2	0	1	24/26 AWG PIC	26 AWG: 0 to 24,000 ft/25-ft 26 AWG BT: 0 to 200 ft/10-ft 24 AWG: 50 ft	30 MHz
458-LM-E1-30-04 (AWGN2)	ADSL, ADSL2, ADSL2+, VDSL, VDSL2	0, 2	1	0.4mm PE	0 to 9,000 m/10-m	30 MHz
458-LM-E1-30-04+ (AWGN2)	G.SHDSL, ADSL, ADSL2, ADSL2+, VDSL, VDSL2	0, 2	1	0.4mm PE/PE04	0 to 9,000 m/10-m	30 MHz
458-LM-E1-30-TP100 (AWGN2)	ADSL, ADSL2, ADSL2+, VDSL, VDSL2	0, 2	1	TP100	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-A8-30+	G.SHDSL, E-SHDSL, 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-A8-36	ADSL, ADSL2, ADSL2+, VDSL, VDSL2	0	8	26 AWG PIC	0-7,500 ft /500 ft	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	G.SHDSL, ADSL, ADSL2, ADSL2+, VDSL, VDSL2	2 x 16 Transparent Switching Module for Multiplexing/Demultiplexing
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AWGN Generation:

458-AWGN2	G.SHDSL, ADSL, ADSL2, ADSL2+, VDSL, VDSL2	Dual Output AWGN Generator Line Module
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Interface Adaptor Cables:

RJ21X1-RJ45X24	Interface adaptor cable with one 50-pin female RJ-21 connector to twenty-four male RJ-45 connectors
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Refer to individual datasheets for detailed information.