



**"Results You Can Count On"**

## **Model 458-AWGN2 Dual Output AWGN Generator Line Module**

*Two Noise Sources in a Convenient Line Module Format!*



- **Bandwidth 20 kHz to 30 MHz**
- **Inject AWGN onto real cable or local loop simulator**
- **Solution for injecting AWGN for ADSL, ADSL2, ADSL2+, & VDSL2 chip/modem/DSLAM testing**
- **Plugs into our Model 458-CC-16 (16-slot) or 458-3SLB (3-Slot) chassis**
- **AWGN levels can be controlled manually via front panel of chassis, or remotely via RS-232, Ethernet or IEEE-488 (GPIB)**
- **458 Universal GUI software for control from a remote PC**
- **White Noise (AWGN) Generator (-90 dBm/Hz to -145 dBm/Hz)**

The Model 458-AWGN2 is the ideal solution for injecting 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. The 458-AWGN2 allows for common or independent noise levels on both sides. This line module produces a flat Power Spectral Density (PSD) over bandwidths from 20 kHz to 30 MHz.

This module 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). The modular design of Telebyte's products allows the 458-AWGN2 to be combined with other line modules for a wide variety of test configurations. This module can also be used to inject AWGN onto real cable.



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**Model 458-AWGN2**  
**Dual Output AWGN Generator (continued)**

<b>Product Specifications</b>	
<b>Simulation</b>	Additive White Gaussian Noise (AWGN)
<b>Bandwidth</b>	Flat Power Spectral Density (PSD) over bandwidths from 20 kHz to 30 MHz
<b>AWGN Crest Factor</b>	$\geq 5$
<b>Output Impedance</b>	4k $\Omega$ Minimum (20 kHz to 30 MHz)
<b>White Noise (AWGN) Generator</b>	-90 dBm/Hz to -145 dBm/Hz in 0.25-dBm increments
<b>Maximum Voltage Tip – Ring</b>	200 V
<b>Output Mode</b>	Differential, balanced
<b>Connectors</b>	4 RJ-45's on front (2 for CO side, 2 for CPE side of loop)

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