

WILLIAMS AV

Digi-Loop®

INDUCTION LOOP AMPLIFIERS



The Digi-Loop is an induction loop amplifier system that works with hearing aids with t-coils and handheld loop receivers.

Induction (hearing) loop systems work by transmitting sound via a copper wire (the loop) directly into hearing aids equipped with a telecoil (t-coil) or handheld receivers. They are designed to provide a more inclusive experience for all. Hearing aids provide users with a discreet, individually configured listening experience, which is further enhanced by the increased intelligibility

provided by hearing loops. In addition, Digi-Loop readily meets a facility's needs for global disability legislation compliance.

Williams AV's Digi-Loop products support small, medium, and large areas, with optional Dante audio inputs. Its network-control capability provides seamless, remote system set-up, operation, and monitoring via laptop or tablet. DSP audio processing offers flexible, powerful software control of mixing, equalization, compression, and more.

Key Features

- Available as a single or dual up to 9.5 A rms loop outputs for perimeter loop(s), single array(s), dual loop or phased-array configuration
- DSP-based system for maximum intelligibility
- 70 -100 V input provides a connection to a distributed speaker/paging system, ensuring announcements are heard by loop users
- Dante audio input option available
- Meets ADA / ADAAG guidelines

Applications

- Assistive Listening

Markets

- Houses of Worship
- Education - classrooms & lecture halls
- Entertainment - Auditoriums, Theaters
- Transportation - airports, train stations
- Assisted living facilities



View our full digi loop line at WilliamsAV.com/product/dl207-net/

Product Specifications: Digi-Loop DSP Dual Channel Loop Amplifier (DL207 NET)

Dimensions	1 RU Rackmount, 19" W x 1.75" H x 10" D. Chassis is 17" W.
Weight	DL107: 9.2 lbs (4.2 kg)DL207: 9.2 lbs (4.2 kg)
Color	Case: Black, white and blue legends on front, white legends on back. LCD: Backlit Blue.
Fan cooling	Variable Speed, Temperature Controlled
Power supply	Internal, Universal 100-240 VAC, 50/60 Hz, 200 Watt. Fuse: 5 x 20 mm, 5 A, 250 V.AC power plug is IEC 320-C14.
Heat output @ 120 VAC	DL107 : Sleep State: 63 BTU/hr; Idle State: 71 BTU/hr; Driving one loop @ 9.5 A: 339 BTU/hr
	DL207: Sleep State: 63 BTU/hr; Idle State: 84 BTU/hr; Driving two loops @ 9.5 A each: 638 BTU/hr
Ethernet	(1x) RJ-45; 10-100 MBps.
USB	(1x) standard-B. USB 1.1, 2.0 or 3.0 supported.
Environment	0-35° C (32-95° F), 0-90% relative humidity,
Coverage area*	DL207 (dual output amplifier):30,000 sq. ft. (2,786 sq. m.) (Perimeter Loops, 3:1 aspect ratio, both outputs driven)18,000 sq. ft. (1,672 sq. m.) (Perimeter Loops, 1:1 aspect ratio, both outputs driven)
INPUTS	
Dante input	On "D" models only. (1x) RJ-45;100 Mbps. Minimum latency: 2 ms. Audio sample rates supported: 44.1, 48 kHz. Resolution: 24 bits.
Line inputs	(1x) 3-position terminal block, 10 kΩ input impedance. Configurable/accepts -10 dBV, -4 dBu, +4 dBu, +8 dBu, balanced or unbalanced. Level adjustable 0 to -96 dB.
Mic/Line inputs	(1x) XLR 3-pin jack. Input impedance: 1.5 kΩ Mic, 10 kΩ Line. Configurable/Accepts: Mic, Line -10 dBV, Line +4 dBu, or Line +8 dBu, balanced or unbalanced. Phantom supply (24V).
70-100 V input	(1x) 2-position terminal block; high/speaker-level input (accepts 25 V, 70 V or 100 V) from distributed audio/paging systems.
OUTPUTS	
Line outputs	(1x) 3-position terminal block; loop-through of Mic/Line Input 1 [&] Line Input 2, +4 dBu, Balanced or Unbalanced. The line outputs mirror the audio of the loop output.
Loop output(s)	(1x) 2-position terminal block per output

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Audio output delay	Adjustable from 0 to 165 msec
Headphone output	(1x) 1/4" stereo headphone jack, on front of unit. Monitored input or output selectable in menu.
Loop fault relay	(1x) 3-position terminal block providing NC, NO and Common. Contact rating: 2.0 A @ 30 VDC.
Loop output drive voltage	16.1 Vrms (22.8 Vpk) continuous
Rated loop output current*	9.5 Arms (13.4 Apk) per output
Loop resistance range	0.5 Ω to 3.0 Ω (DC)
AUDIO	
Rated load*	0.5 Ω DC with 135 μ H inductance
Frequency response	45 Hz to 9.0 kHz \pm 2 dB (1 kHz ref.)
Rated loop THD*	[[t]1 % at rated output current (1 kHz sine wave).
OTHER	
Front controls	Front LCD display menu access/adjustment via control button/dial.
Adjustable settings	Input mixing, parametric equalization, compression, metal loss compensation, high and low-pass filters, AGC and audio delay, output levels. See User Manual for adjustment range(s).
Internal calibration tools	Test tone generator with pink noise, loop current adjustment/matching. See User Manual for details.
Other features	Save/load configuration, loop test, priority input selection with adjustable threshold, loop fault relay, open/short and thermal protection. See User Manual for details.
Network control [&] firmware	Function control and calibration by DigiLoop PC App via ethernet (RJ-45). PC App requires Windows 7 or higher. Firmware updates through USB only.
Warranty	5-year warranty against component failure and manufacturing defects. See Full Warranty statement on the website for details .
Approvals	CE, UL, ULC, FCC, Industry Canada, RoHS, WEEE, CB scheme, RCM
Standards compliance	This product is designed to meet the IEC-60118-4 standard when correctly designed, installed and commissioned. Test Specifications provided to the IEC 62489-1 standard.