

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	2-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.