



DMA-ML & WTSD-ML

DMA & LMA AMPLIFIER ACTIVE MIC/LINE INPUT WALL PLATES

TECHNICAL DATA SHEET



PRODUCT SUMMARY

The AtlasIED DMA-ML and WTSD-ML are part of the DMA Digital Mixer Amplifier accessory line and the WTSD active wall plate series. Two versions of the mic/line preamp wall plate are available: the DMA-ML, which connects directly to a DMA amplifier, and the WTSD-ML, which connects to any audio system with a balanced line input. Both models use the same mic/line receiver wall plate and integrate seamlessly with audio systems.

The DMA-ML connects to the DMA amplifier using an installer friendly, color coded system that utilizes industry standard CAT5/6 cabling and RJ45 connectors. The WTSD-ML functions as a universal mic/line preamplifier and requires a PWBOB analog interface box and external power supply to operate. Both wall plate versions can be installed up to 330 ft (100 meters) from the amplifier, providing flexible placement options.

Both the DMA-ML and WTSD-ML use commercial grade microphone preamps featuring ultra-low noise performance, high-gain output, mic or line level selection, phantom power, 20 dB pad, 120 Hz high pass filter and rotary detented level control. Installation meets low voltage standards and is straightforward, with the wall plate fitting into a standard single gang electrical box or low voltage ring and requiring only 1.5 inches (38 mm) of clearance depth.

The AtlasIED WTSD proprietary low-voltage bus is designed to support a single wall plate or multiple WTSD devices. Up to three WTSD devices can be daisy-chained on the same bus, with audio from each device summed together while maintaining independent control. The DMA-ML includes an onboard signal limiter to manage the level placed on the summed bus, with adjustable settings from -3 dB to 21 dB. The DMA-ML faceplate provides signal and limiter status indicators.

KEY FEATURES

- Mic or line modes
- Rotary level control
- Output limiter
- Phantom power
- 20 dB mic pad
- 120 Hz high pass filter (defeatable)
- Color-coded RJ45 interface with DMA series amplifiers
- Utilizes standard Cat5/6 Cable
- Surface mount design (no cover plate required)
- Signal & limit indicator
- Meets low voltage electrical codes
- Fits into 1-gang electrical boxes or low voltage rings
- Can be mounted up to 100 meters from a DMA series amplifier
- Linkable with other WTSD series units on the same bus
- High-gain balanced line output for long-distance applications

APPLICATIONS

The AtlasIED DMA and LMA Series Amplifiers provide flexible one- or two-zone audio system design, and when paired with DMA-ML or WTSD-ML wall controllers, the remote audio input panel provides a streamlined user experience.

- Restaurants
- Presentation rooms
- Classrooms
- Retail background/foreground music applications
- Indoor sports complexes
- Hotels – ballrooms
- Community multi-use facilities
- Industrial facilities
- Coffee shops



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DMA & LMA AMPLIFIER MICROPHONE/LINE INPUT WALL PLATES



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SPECIFICATIONS/PERFORMANCE

System	
Model	DMA-ML
Type	Microphone / Line Input Audio Wall Plate
Model	WTSD-ML
Type	Microphone / Line Input Audio Wall Plate & Interface Kit
WTSD-ML Kit Contents	DMA-ML Audio Wall Plate, PWBOB (Injector), external 24 VDC, 500 mA power supply
Mic or Line Input Mode	
Input Type	Balanced Mic or Line
Selection Method	Selectable via switch settings (rear panel)
Connection Type	XLR female socket, Qty 1
XLR Location	Front Panel
Line Input Mode	
Level	500 mV (-6 dBv). Balanced = 1V (0 dBV) (Balanced Output)
Impedance	1.2 k Ω (Balanced), 600 Ω (Unbalanced)
Maximum Input	6.8 V (+16.5 dBv)
Maximum Output	4V (+12dBv) (Balanced Output)
Frequency Response	30 Hz - 20KHz (-1 dB),
THD	0.15%
Noise	56 μ V (Level Max)
Mic Input Mode - No Pad	
Impedance	1.2 k Ω (Balanced), 600 Ω (Unbalanced)
Input Gain	43 dBu, (5 mV (-46 dBV) = 1 V (0 dBV) (Balanced Output)
Maximum Input	70 mV (-23 dBv)
Maximum Output	4 V (+12 dBv) (Balanced Output)
Frequency Response	60 Hz - 12KHz (-1dB)
THD	0.10%
Noise	320 μ V (Level Max)
CMRR	70 dB
Dynamic Headroom	100 dB
Mic Input w/ -20 dB Pad	
Gain w/ -20 dB Pad	23 dB, (50mV (-26 dBv) = 1 V (0 dBV) (Balanced Output)
Maximum Input w/ -20 dB Pad	710 mV (-2.97 dBv)
Maximum Output w/ -20 dB Pad	4 V (+12 dBv) (Balanced Output)
Frequency Response	30 Hz-12 kHz (-1 dB)
THD	0.18%
Noise	58 μ V (Level Max)
CMRR	70 dB
Dynamic Headroom	100 dB

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DMA-ML Bus Input	
Input Type - Bus	(IN) from DMA-BT, WTSD-MIX31, or WTSD-MIX41 (Supports any three of these devices daisy-chained – sums audio signal)
Connection	RJ45 (Black)
Audio	Analog Balanced Line (part of bus)
Location	Rear Panel
Network	No: Proprietary WTSD bus.
DMA-ML Bus Outputs	
Output Type - Bus, Proprietary	(OUT) to DMA Amp WTSD Input, WTSD-PWBOB, or WTSD-PWHUB
Connection	RJ45 (Black)
Interface Component	(OUT) to DMA amplifier WTSD Input, WTSD-PWBOB or WTSD-PWHUB
Audio	Analog balanced line (part of bus)
Location	Rear Panel
Network	No
Controls - Front Panel	
Level Control	
Function	Adjust audio output level
Potentiometer Type	10k, detented
Location	Front Panel
Function Switch #1	
Switch Type	DIP switch
Location	Rear panel
Number of Switches	Qty. 4
SW1 - Mic Pad Disable	When the switch is in the ON position, the -20 dBu mic pad is disabled.
SW2 - Mic/Line	When the switch is in the ON position, the Mic Mode is enabled. In the OFF position, Line Mode is enabled.
SW3 - Phantom (24 VDC)	When in the ON position, phantom power is enabled.
SW4 - Low-Cut Filter	When the switch is in the ON position, the 125 Hz / 12dB HPF is disabled.
Function Switch #2	
Switch Type	DIP switch
Location	Rear panel
Number of Switches	Qty. 3
Limiter Function	Limits audio output signal
SW1 Limiter	-3 dB
SW2 Limiter	-6 dB
SW3 Limiter	-12 dB
SW 1, 2, 3 ON	Accumulative up to 21 dB
Indicators - DMA-ML	
Signal/Limit	
Function	Illuminates when 5 mV of audio signal present at output
Type	Bi-color LED
Color	Green
Location	Front Panel

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Limit - Front Panel	
Function	Illuminates when audio signal triggers limiter threshold
Type	Bi-color LED
Color	Yellow when activated. Rear panel LED activates in parallel with front panel LED.
PWBOB Input (WTSD Kit)	
Bus Connection	
Bus Interface	From DMA-ML
Connector	RJ45 (Black)
Location	PWBOB side
Network	No: Proprietary WTSD bus.
WTSD Power Supply Input	
Connector	Euroblock, 2-position, 3.5 mm pitch
Power Supply Voltage	24 VDC
PWBOB Output	
Output Type	Proprietary bus
Connector	Euroblock (Phoenix), 2-position, 3.5 mm pitch
Audio Connection	3-position analog balanced line
Other Pins	Other three (3) connections not used with DMA-ML
Location	PWBOB Chassis Side
PWBOB Indicators	
Power LED	Green
Output Signal	Green
Other LEDs	Not functional with DMA-ML
Technical Data - DMA-ML	
Frequency Response	40 Hz - 20 kHz \pm 1 dB
THD	0.1% @ 1 kHz @ 100 ft.
Audio Output	Balanced line. Maximum output: 4 V
DCV Bus	24 VDC
S/N Ratio	Music input: 81 dB @ 100 ft. using Cat5/6 cable; 77 dB @ 330 ft.; Mic input: 75 dB @ 100 ft. Cat5/6 cable; 72dB @ 400 ft.; Music input: 77 dB @ 100 ft.; Cat5/6 cable, 74 dB @ 400 ft. Note: For signal unit measurement, levels were set to maximum. Noise was referenced to a 1 V / 0 dBv output. Noise varies with Cat5/6 cable length.
Signal Indicator on Threshold	5 mV
DMA-ML Interface Connection	
Connector Type	RJ45
Connector Color Code	Black
Connection Interface	To DMA Amplifier WTSD Input & WTSD-PWBOB
Cable Type	Cat5/6 (Suggested)
Maximum Cable Length	330 ft. (100 m)

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Ambient Operating Conditions - DMA-ML	
Maximum Operating Temperature	104° F / 40° C
Minimum Operating Temperature	14° F / -10° C
Maximum Humidity	90%
Mounting - DMA-ML Wall Plate	
Wall Controller - Electrical Box	1-Gang Electrical Box. Minimum depth: 2" (55 mm)
Wall Controller - Surface Mount	Low-voltage ring. Minimum clearance: 2" (55 mm)
DMA-ML Power Requirements	
DMA Amp Direct	DMA -BT connected to DMA-WTSD Input
DC Current Draw	110 mA ¹
British Thermal Units	8.5 Btu ¹
DMA-BT Connected to WTSD-PWBOB	
AC Mains	95 V - 260 V, 50 / 60 Hz
Supply Voltage	24 VDC (24 VDC, 500 mA power supply included with WTSD-BT)
DC Current Draw	110 mA ¹
AC Power Supply Consumption - Amperes	52 mA ¹
AC Power Consumption - Watts	2.5 W ¹
British Thermal Units	8.5 Btu ¹
Safety & Certifications	
TÜV	CE, FCC
Mechanical - DMA-ML	
Chassis Finish	White
Chassis Material	Plastic and Steel
Product Dimensions (H x W x D1=Mounting Depth and D2=Total)	4.7" x 3" x D1 = 1.34", D2 = 1.85" (119 mm x 76 mm x D1 = 34 mm, D2 = 47 mm)
Unit Weight	0.46 lbs. (0.21 kg)
DMA-ML Package Contents	
DMA-BT	Qty. 1
Hardware	Qty. 4 Screws 6/32" x 1 Pan Head, White (2 spares)
Manual QR Code	Qty. 1

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WTSD-ML Package Contents	
DMA-ML	Qty. 1
PWBOB	Qty. 1
Power Supply (24 VDC)	Qty. 1
Hardware	Qty. 4, Screws: 6/32" x 1" Pan Head, White (2 spares)
Manual QR Code	Qty. 1
Shipping - DMA-ML	
Shipping Dimensions (H x W x D)	6.25" x 4.62" x 3.26" (158 mm x 117 mm x 83 mm)
Shipping Weight	0.74 lbs. (0.33 kg)
Shipping - WTSD-ML	
Shipping Dimensions (H x W x D)	3.46" x 4.68" x 6.4" (88 mm x 119 mm x 163 mm)
Shipping Weight	1.32 lbs. (0.6 kg)

Notes:

- 1 - Average current draw, watts, and Btu are based on one WTSD- or DMA-BT. For each WTSD or DMA-ML added in series, calculate the total draw. Example: Two WTSDs=104 mA. Three WTSDs=156 mA of DC current draw.
- 2 - Electrical box requirements. For additional information, refer to manual for recommended box types.

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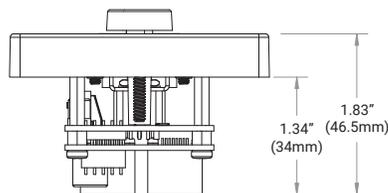
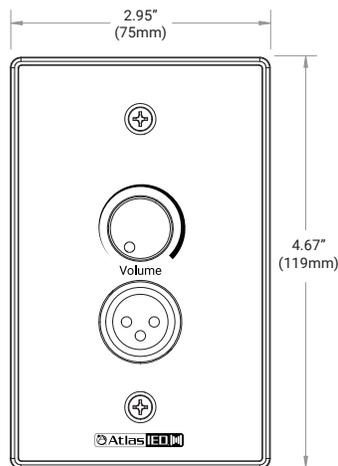
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PRODUCT IMAGES & DIMENSIONS

DMA-ML



DMA-ML & WTSD-ML

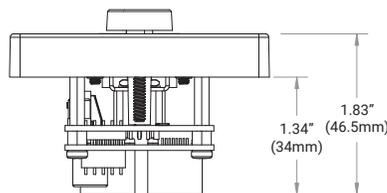
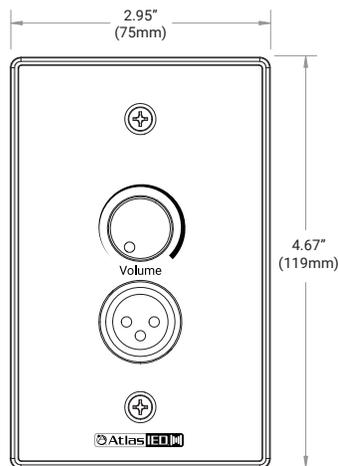
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PRODUCT IMAGES & DIMENSIONS

DMA-ML



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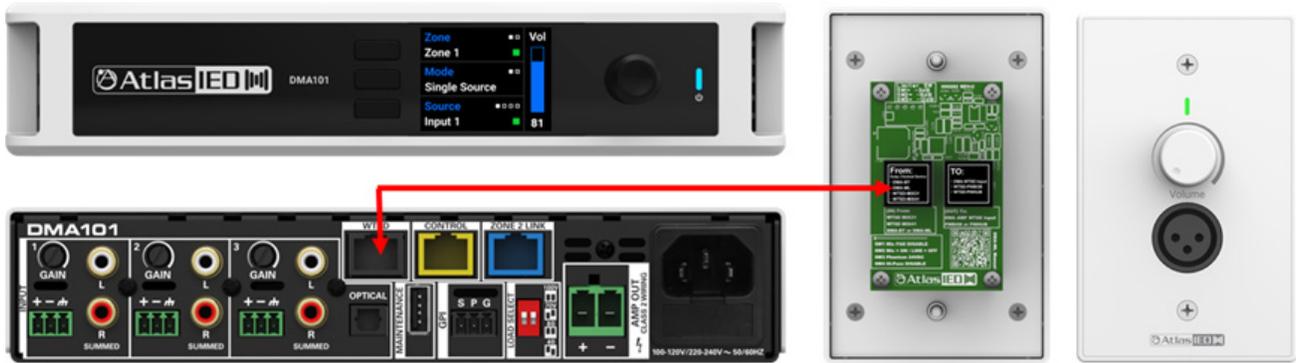
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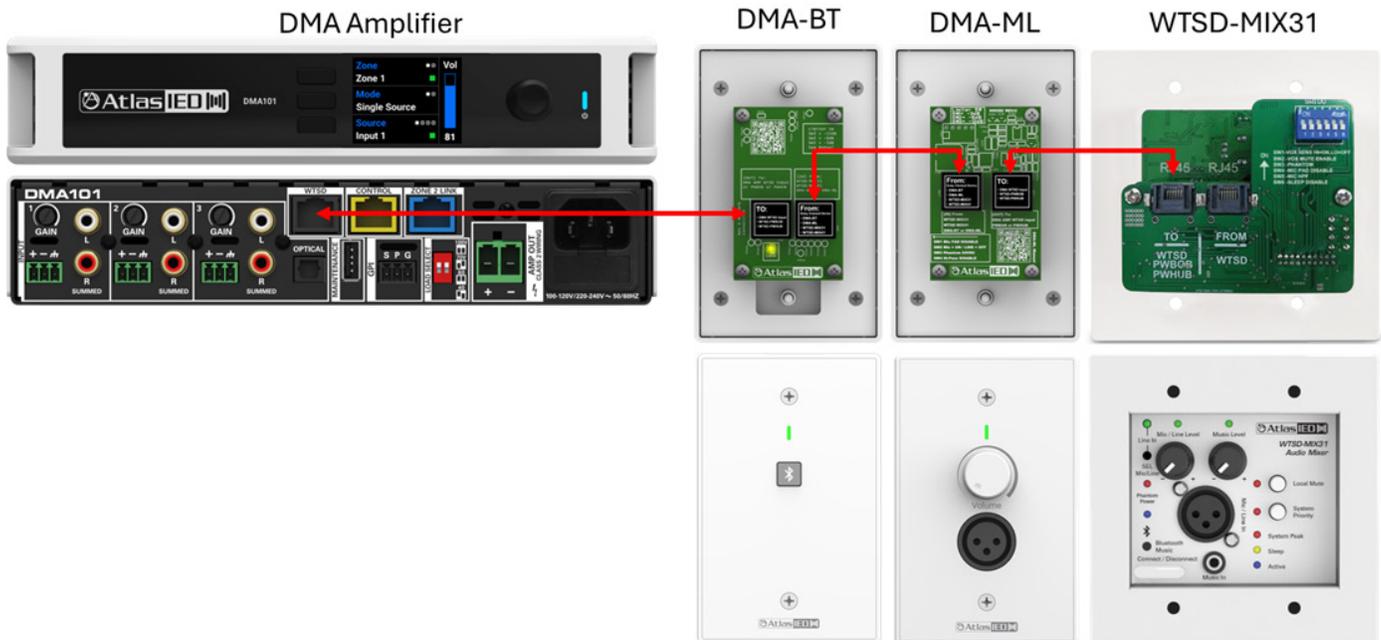


DMA-ML CONNECTION DIAGRAMS

DMA-ML & DMA Amplifier WTSD Input



DMA-ML & DMA Amplifier WTSD Input With 3 Units Daisy-Chain



DMA-ML & WTSD-ML

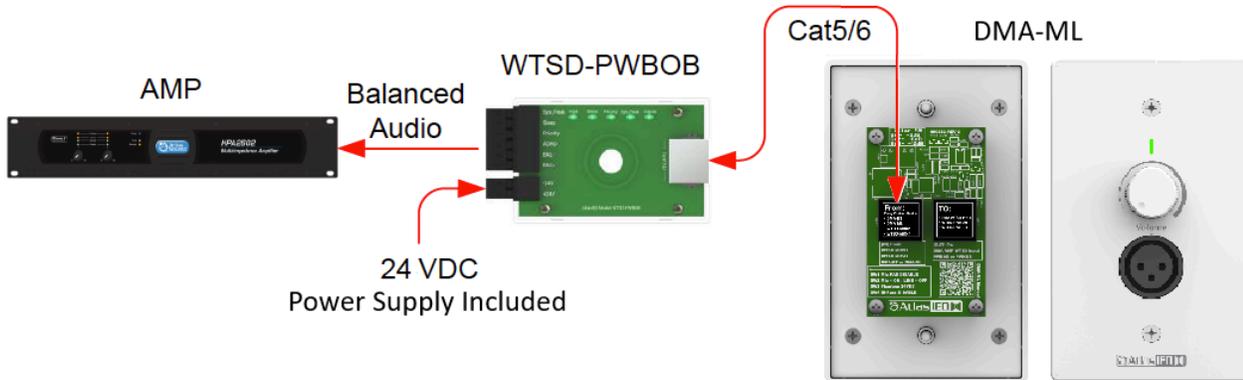
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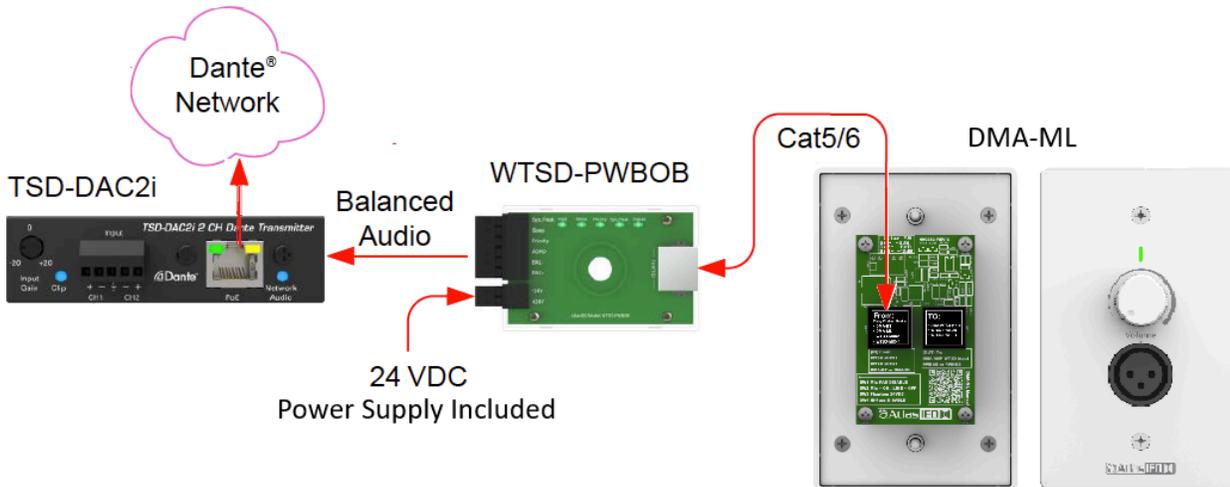


WTSD-ML CONNECTION DIAGRAMS

WTSD-ML Audio



WTSD-ML Signal Converted to Dante® Digital Audio



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ARCHITECT AND ENGINEER SPECS

The mic/line wall plate preamplifier shall be the AtlasIED DMA-ML or WTSD-ML, designed for use with AtlasIED DMA Digital Mixer Amplifiers series and the WTSD active wall plate series. The device shall be available in two versions: the DMA-ML, which shall connect directly to AtlasIED DMA Series amplifiers, and the WTSD-ML, which shall interface with any audio system providing a balanced line level input. Both versions shall utilize the same mic/line receiver wall plate assembly.

The DMA-ML shall connect to the DMA amplifier using a color-coded interface employing industry standard CAT5/6 cabling and RJ45 connectors. The WTSD-ML shall operate as a universal mic/line preamplifier and shall require a PWBOB analog interface box and external power supply. Both wall plate versions shall support cable runs up to 330 ft (100 m) from the associated amplifier or interface device.

The preamplifier shall incorporate a commercial grade microphone preamp with ultra-low noise performance, high gain output, selectable mic or line level, 48 V phantom power, a 20 dB pad, a 120 Hz high pass filter, and a rotary detented level control. The wall plate shall meet low voltage installation requirements and fit into a standard single gang electrical box or low voltage ring with a minimum clearance depth of 1.5 inches (38 mm).

The DMA-ML shall include an onboard signal limiter with adjustable settings from -3 dB to +21 dB to regulate signal contribution to the summed BUS. The DMA-ML faceplate shall include signal and limiter status indicators.

The WTSD-ML shall operate on the AtlasIED proprietary low voltage WTSD bus, supporting up to three daisy-chained WTSD devices with summed audio and independent device control.

Dimensions for both wall plate models shall be the same with the (Height) 4.67" x (Width) 2.95" x (Mounting Depth) 1.34" (119 mm x 75 mm x 34 mm). Weight shall be 0.46 lbs (0.21 kg).

The AtlasIED accessory wall plate shall be the DMA-ML and the WTSD-ML.

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