DNA2404

Digital Network 4-CH Power Amplifier DNA2404CL/DNA2404DL/DNA2404CH/DNA2404DH



Features

- Supports Dante™ or CobraNet[®] Digital Audio Inputs (Depending on Model)
- Compatible with IED GLOBALCOM[®] Systems and 3rd Party Dante[™] or CobraNet[®] Devices
- Provides Redundant Ethernet Ports
- 7-Band Parametric EQ and a High-Pass and Low-Pass Filter per Channel
- Output Audio Monitoring
- Four 600-Watt Amplifier Output cChannels
- 70.7-Volt or 100-Volt Output Models Available
- LED Indicators for Power, Audio Signals and Faults
- Built-in Supervision of Amplifier Cards and Loudspeaker Lines
- Fault Reports and Amplifier Status Available Over Ethernet Using Standard SNMP Protocol
- Supports Independent Background Music for All Channels with Automatic Ducking When Paging Audio is Present (CobraNet[®] Versions Only)
- Two Inputs for Ambient Noise Sensors for Each Amplifier Output Channel
- ETL Safety Listed DNA2404CL(DL) Are Also Listed to UL1711 Which is Required for UL2572 Mass Notification Systems
- Can be Used on Class A, B or AB Loudspeaker Circuits

General Description

The DNA2404 series of amplifiers are an integral part of the IED GLOBALCOM[®] Communications System, allowing a few audio zones to be added where necessary when a full 16-zone T9160 amplifier frame is not required. The amplifiers feature either CobraNet[®] or Dante[™] digital audio input and four channels of 600 watt amplification. The DNA2404 amplifiers are controlled with network commands for selecting input routing and configuring EQ, output levels, ambient noise level compensation, and sound masking (CobraNet[®] versions only). Amplifiers are controlled through the GLOBALCOM[®] System Management Center.

The internal amplifier cards are Class D (switching mode) dual channel 600W amplifiers into the rated loads (70.7-Volts or 100-Volts).

Class D operation, combined with an integral switching mode power supply, offers many advantages, and the unique IED design makes full use of these benefits. They include higher efficiency, increased reliability, improved performance, and lower operating cost. Switching mode operation combined with high voltage power MOSFET devices make it possible to eliminate the heavy, costly, bulky transformers. IED's design is stable under all load conditions (phase angles of 0 to 360 degrees). The amplifier card has 34dB of gain from its analog input to the loudspeaker output. Attenuation is handled ahead of the power amplifier by DSP controls through software.

Inputs are provided for connecting up to eight (8) 540S ambient noise sensors (2 sensors for each output channel). This allows the output of each channel to be automatically adjusted in real time based on the measured ambient noise level in the zone.

The power amplifier has built-in voltage limiting to protect the loudspeakers being driven. In addition, a temperature sensor on the heatsink will annunciate a trouble condition if an amplifier becomes too hot.

The DNA2404 series amplifiers feature LED indicators for power, audio signals and fault status. A Form C relay is also included that will indicate that a fault is present.

The DNA2404 amplifiers provide 600-watts per channel in either 70.7-volt or 100-volt transformer-distributed loudspeaker systems. Models DNA2404CL and DNA2404CH utilize CobraNet[®] for digital audio while models DNA2404DL and DNA2404DH utilize Dante[™] for digital audio transmissions. Models DNA2404CL and DNA2404DL operate from a 120 VAC power source and the DNA2404CH and DNA2404DH models operate from a 240 VAC power source.

Models DNA2404CL and DNA2404CH can be used in conjunction with a GLOBALCOM® Announcement Controller for sound masking applications. The sound masking functionality can be enabled and controlled on a per channel basis. Each of the four (4) output channels has eighteen (18) bands of dedicated ¹/₃ octave filter sets. Sound masking can be layered on top of background music (BGM) and / or paging allowing for a complete paging, masking, BGM solution.

🖉 Atlas IED 🔟



Number of Amplifier Outputs 4 Connectors Ethernet Ethernet Control and Digital Audio (100 Mbps), Qty 2 Speaker 4-pin Phoemix (2CH per Block), Qty 2 Fault Relay 3-pin Phoemix, 38 Imm Specing, Qty 1 Ambient Stensors 3-pin Phoemix, 38 Imm Specing, Qty 1 Ambient Stensors 3-pin Phoemix, 38 Imm Specing, Qty 8 AC Power DNA2404CL / DNA2404DL (120VAC) Volex 17860 Controls and Indicators Controls and Indicators AC Power ON Green LED, Qty 2, 1 per Internal Card Former On Green LED, Qty 2, 1 per Internal Card Temperature Fault Yellow LED, Qty 4, 1 per Channel Card Fault Yellow LED, Qty 4, 1 per Channel Card Fault Yellow LED, Qty 2, 1 per Internal Card Ground Fault Yellow LED, Qty 2, 1 per fan AC Power Requirements Yellow LED, Qty 2, 1 per fan AC Power Requirements 250 Watts Fuil Power (AI Channels Driven) 250 Watts Fuil Power (AI Channels Driven) 100 Watts Max Yi Speech / Voice Announcement 275 Watts Fuil Power (AI Channels Driven) 275 Watts <th>System</th> <th></th>	System		
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DNA2404CL / DL Quiescent Power 95 Watts Full Power (All Channels Driven) 100 Watts Max V/s Speech /Vicioe Announcement (All Channels Driven) 250 Watts Power Factor 0.76 DNA2404CH / DH Quiescent Power 104 Watts Full Power (All Channels Driven) 1200 Watts Max V/s Speech /Vicioe Announcement 275 Watts V/s Speech /Vicioe Announcement 276 Watts V/s Speech /Vicioe Announcement 276 Watts V/s Speech /Vicioe Announcement 276 Watts Power Factor 0.70 Power Output (for Channel) 0.70 Power Output (for Channel) 70.7 V 125 ohm Load Continuous 200 Watt) (8 ohm Load - Pulse 600 Watt) Power Output (for Channel) 70.7 V 125 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Power Output (for Channel) 70.7 V 125 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Power Output (for Channel) 70.7 V 125 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Power Output = 600 W 80% 70.7 V R/S Output Clipping Level DNA2404CL / DL 70.7 M/S Output Clipping Level DNA2404CL / DL 70.7 M/S	Fan Fault	Yellow LED, Qty 2, 1 per Fan	
Full Power (All Channels Driven) 1100 Watts Max ½ Speech /Voice Announcement (All Channels Driven) 250 Watts DNA2404CH / DH Quiescent Power 104 Watts DIA 24404CH / DH Quiescent Power 104 Watts Full Power (All Channels Driven) 1200 Watts Max ½ Speech /Voice Announcement (All Channels Driven) 275 Watts Power Factor 0.70 Electrical, Analog CL & DL models at 120VAC CH & DL models at 240VAC Power Output (per Channel) DNA2404CH / DNA2404DL 70.7 V (25 ohm Load Continuous 200 Watt) (8 ohm Load - Pulse 600 Watt) Power Output (per Channel) DNA2404CH / DNA2404DL 70.7 V (25 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Power Output (per Channel) DNA2404CH / DNA2404DH 100 V (50 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Power Output (per Channel) DNA2404CH / DNA2404DH 100 V (50 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Power Output (per Channel) DNA2404CH / DNA2404DH 100 V (50 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Vip toput = 600 W 80% % Power Output = 75 W 64% Output Clipping Level DNA2404L/ DL 70 V RMS Output Clipping Level DNA2404CL / DL 100 V RMS Frequency	AC Power Requirements		
'/, Speech / Voice Announcement (All Channels Driven) 250 Watts Power Factor 0.76 DNA2404CH / DH Quiescent Power 104 Watts DI Power (All Channels Driven) 1200 Watts Max '/, Speech / Voice Announcement (All Channels Driven) 1200 Watts Max '/, Speech / Voice Announcement (All Channels Driven) 275 Watts Power Factor 0.70 Power Factor 0.70 Power Output (per Channel) DNA2404CL / DNA2404DL 70.7V (25 ohm Load Continuous 200 Watt) (8 ohm Load - Pulse 600 Watt) Power Output (per Channel) DNA2404CL / DNA2404DL 70.7V (25 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Power Output (per Channel) DNA2404CH / DNA2404DL 100 V (50 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Power Output = 600 W 80% & Mower Output = 55W 64% Output Clipping Level DNA2404CL / DL 70 V RMS Output Clipping Level DNA2404CL / DL 70 V RMS Output Clipping Level DNA2404CL / DL 100 V RMS Frequency Response PO = 50W, 20 H 2 2 20 Hz ± 1dB Signal-to-Noise Ratio Unveighted, 20H 2 - 20 KHz, ±3dB 5304 Signal-to-Noise Ratio Unveighted, 20H 2 - 20 KHz Response 0.67 ohms O = 200 W 0.67 ohms Output Impediance, ZO DNA2404CL / DL 0.6 ohms	DNA2404CL / DL Quiescent Power	95 Watts	
(Ali Channels Driven) 250 Watts Power Factor 0.76 DNA2404CH / DH Quiescent Power 104 Watts Eull Power (All Channels Driven) 1200 Watts Max V§ Speech / Voice Annoucement (All Channels Driven) 275 Watts Power Factor 0.70 Electrical, Analog CL & DL models at 120VAC CC & DH models at 240VAC Power Factor 0.70 Power Output (per Channel) 70.7 V (25 ohm Load Continuous 200 Watt) (8 ohm Load - Pulse 600 Watt) DNA2404CL / DNA2404DL 70.7 V (25 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Power Output (per Channel) 100 V (50 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Power Output (per Channel) 100 V (50 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Power Output (per Channel) 100 V (50 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Power Output = 75 W 64% Output Clipping Level DNA2404CL / DL 70 V RMS Output Clipping Level DNA2404CL / DL 70 V RMS Signal-to-Nies Ratio Unweighted, 20Hz - 20Hz R 120Hz - 20Hz, ±3dB Signal-to-Nies Ratio Unweighted, 20Hz - 20Hz R 28dB Signal-to-Nies Ratio Unweighted, 20Hz - 20Hz R	Full Power (All Channels Driven)	1100 Watts Max	
DNA2404CH / DH Quiescent Power104 WattsFull Power (All Channels Driven)1200 Watts Max'/s Speech / Voice Announcement (All Channels Driven)275 WattsPower Factor0.70Electrical, Analog CL & DL models at 120/VACCH & DH models at 240/VACPower Output (per Channel) DNA2404CL / DNA2404DL70.7 V (25 ohm Load Continuous 200 Watt) (8 ohm Load - Pulse 600 Watt)Power Output (per Channel) DNA2404CL / DNA2404DH70.7 V (25 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt)Power Output (per Channel) DNA2404CL / DNA2404DH80%Power Output = 600 W80%Ver Output = 75 W64%Output Clipping Level DNA2404CL / DL70 V RMSOutput Clipping Level DNA2404CL / DH100 V RMSFrequency Response PO = 50 W, 20 Hz - 20 kHz ± 1dB±1dBPower Bandwidth20Hz - 20 kHz, ±3dBSignal-to-Noise Ratio Unweighted, 20Hz - 20 kHz, ±3dB\$85dBTotal Harmonic Distortion, THD< 0.2% @ 2 kHz 0.67 ohmsO = 200 W Output Impedance, ZO DNA2404CH / DH0.6 ohms		250 Watts	
Full Power (All Channels Driven) 1200 Watts Max Y/s Speech / Voice Announcement (All Channels Driven) 275 Watts Power Factor 0.70 Electrical, Analog CL & DL models at 120VAC CH & DL models at 240VAC Power Output (per Channel) DNA2404CL / DNA2404DL 70.7 V (25 ohm Load Continuous 200 Watt) (8 ohm Load - Pulse 600 Watt) Power Output (per Channel) DNA2404CL / DNA2404DL 100 V (50 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Power Output = Channel) DNA2404CL / DNA2404DL 100 V (50 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Power Output = Channel) DNA2404CL / DNA2404DL 100 V (50 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Power Output = 75 W 64% Output Clipping Level DNA2404CL / DL 70 V RMS Output Clipping Level DNA2404CH / DH 100 V RMS Frequency Response PO = 50 W, 20 Hz - 20 kHz ± 1dB Power Bandwidth 20 Hz - 20 kHz, ±3dB Signal-to-Noise Ratio Unweighted, 20Hz - 20 kHz + \$86JB \$86JB Total Harmonic Distortion, THD 0.67 ohms PO = 200 W Output Impedance, ZO DNA2404CL / DL 0.6 ohms	Power Factor	0.76	
'/s Speech / Voice Announcement (All Channels Driven) 275 Watts Power Factor 0.70 Electrical, Analog CL & DL models at 120VAC CH & DH models at 240VAC DH models at 240VAC Power Output (per Channel) DNA2404CL / DNA2404DL T0.7 V (25 ohm Load Continuous 200 Watt) (8 ohm Load - Pulse 600 Watt) Power Output (per Channel) DNA2404CL / DNA2404DH 100 V (50 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Efficiency 100 V (50 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Power Output = 600 W 80% Via Power Output = 75 W 64% Output Clipping Level DNA2404CL / DL 70 V RMS Output Clipping Level DNA2404CH / DH 100 V RMS Output Clipping Level DNA2404CH / DH 100 V RMS Power Bandwidth 20Hz - 20kHz, ±3dB Signal-to-Noise Ratio Unweighted, 20Hz - 20kHz >85dB Total Harmonic Distortion, THD 6.7 ohms PO = 200 W Output Impedance, ZO DNA2404CH / DH 6.7 ohms	DNA2404CH / DH Quiescent Power	104 Watts	
(All Channels Driven) 275 Watts Power Factor 0.70 Electrical, Analog CL & DL models at 120/AC CH & UH models at 240/AC Power Output (per Channel) 70.7 V (25 ohm Load Continuous 200 Watt) (8 ohm Load - Pulse 600 Watt) DNA2404CL / DNA2404DL 100 V (50 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Power Output (per Channel) 100 V (50 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Efficiency Efficiency Power Output = 600 W 80% Ya Power Output = 75 W 64% Output Clipping Level DNA2404CL / DL 70 V RMS Output Clipping Level DNA2404CL / DL 70 V RMS Power Bandwidth 20Hz - 20kHz, ±3dB Signal-to-Noise Ratio Unweighted, 20Hz - 20kHz >65dB Total Harmonic Distrotion, THD <0.2% @ 2kHz	Full Power (All Channels Driven)	1200 Watts Max	
Electrical Analog CL & DL models at 120VAC CH & DH models at 240VAC Power Output (per Channel) 70.7 V (25 ohm Load Continuous 200 Watt) (8 ohm Load - Pulse 600 Watt) Power Output (per Channel) 100 V (50 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Power Output (per Channel) 100 V (50 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Efficiency Efficiency Power Output = 600 W 80% Output Clipping Level DNA2404CL / DL 70 V RMS Output Clipping Level DNA2404CL / DL 70 V RMS Output Clipping Level DNA2404CL / DH 100 V RMS Power Sandwidth 20H - 20kHz, ±33B Signal-to-Noise Ratio Unweighted, 20Hz - 20kHz Ref >85dB Total Harmonic Distortion, THD 0.67 ohms PO = 200 W 0.67 ohms Output Impedance, ZO DNA2404CL / DL 0.67 ohms	¹/₀ Speech / Voice Announcement (All Channels Driven)	275 Watts	
Power Output (per Channel) DNA2404DL70.7 V (25 ohm Load Continuous 200 Watt) (8 ohm Load - Pulse 600 Watt)Power Output (per Channel) DNA2404DH100 V (50 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt)EfficiencyPower Output = 600 W80%Ye Power Output = 75 W64%Output Clipping Level DNA2404CL / DL70 V RMSOutput Clipping Level DNA2404CL / DL100 V RMSFrequency Response PO = 50 W, 20 Hz - 20 kHz±1dBPower Bandwidth20Hz - 20kHz, ±3dBSignal-to-Noise Ratio Unweighted, 20Hz - 20kHz Response> 85dBTotal Harmonic Distortion, THD< 0.2% @ 2kHz	Power Factor	0.70	
DNA2404CL / DNA2404DL 70.7 V (25 ohm Load Continuous 200 Watt) (8 ohm Load - Pulse 600 Watt) Power Output (per Channel) DNA2404CH / DNA2404DH 100 V (50 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt) Efficiency Efficiency Power Output = 600 W 80% 0 utput Clipping Level DNA2404CL / DL 64% 0 utput Clipping Level DNA2404CL / DL 70 V RMS 0 utput Clipping Level DNA2404CH / DH 100 V RMS Power Bandwidth 20Hz - 20kHz, ±3dB Signal-to-Noise Ratio Unweighted, 20Hz - 20kHz Ref >85dB Yo 2200 W 0.67 ohms Output Impedance, ZO DNA2404CH / DH 0.60 ohms	Electrical, Analog CL & DL models at 120VAC CH &	DH models at 240VAC	
DNA2404CH / DNA2404DH I00 V 600 onm Load Continuous 200 Watt) (16 onm Load - Puise 600 Watt) Efficiency Power Output = 600 W 80% '/s Power Output = 75 W 64% Output Clipping Level DNA2404CL / DL 70 V RMS Output Clipping Level DNA2404CL / DH 100 V RMS Frequency Response PO = 50 W, 20 Hz - 20 kHz ±1dB Power Bandwidth 20Hz - 20kHz, ±3dB Signal-to-Noise Ratio Unweighted, 20Hz - 20kHz Ref >85dB Total Harmonic Distortion, THD <0.2% @ 2kHz		70.7 V (25 ohm Load Continuous 200 Watt) (8 ohm Load - Pulse 600 Watt)	
Power Output = 600 W80%1/s Power Output = 75 W64%Output Clipping Level DNA2404CL / DL70 V RMSOutput Clipping Level DNA2404CH / DH100 V RMSFrequency Response PO = 50 W, 20 Hz - 20 kHz±1dBPower Bandwidth20Hz - 20kHz, ±3dBSignal-to-Noise Ratio Unweighted, 20Hz - 20kHz Ref> 85dBTotal Harmonic Distortion, THD< 0.2% @ 2kHz	Power Output (per Channel) DNA2404CH / DNA2404DH	100 V (50 ohm Load Continuous 200 Watt) (16 ohm Load - Pulse 600 Watt)	
Ye Power Output = 75 W64%Output Clipping Level DNA2404CL / DL70 V RMSOutput Clipping Level DNA2404CH / DH100 V RMSFrequency Response PO = 50 W, 20 Hz - 20 kHz±1dBPower Bandwidth20Hz - 20kHz, ±3dBSignal-to-Noise Ratio Unweighted, 20Hz - 20kHz Ref> 85dBTotal Harmonic Distortion, THD< 0.2% @ 2kHz	Efficiency		
Output Clipping Level DNA2404CL / DL70 V RMSOutput Clipping Level DNA2404CH / DH100 V RMSFrequency Response PO = 50 W, 20 Hz - 20 kHz±1dBPower Bandwidth20Hz - 20kHz, ±3dBSignal-to-Noise Ratio Unweighted, 20Hz - 20kHz Ref> 85dBTotal Harmonic Distortion, THD< 0.2% @ 2kHz	Power Output = 600 W	80%	
Output Clipping Level DNA2404CH / DH100 V RMSFrequency Response PO = 50 W, 20 Hz - 20 kHz±1dBPower Bandwidth20Hz - 20kHz, ±3dBSignal-to-Noise Ratio Unweighted, 20Hz - 20kHz Ref> 85dBTotal Harmonic Distortion, THD< 0.2% @ 2kHz	¹ / ₈ Power Output = 75 W	64%	
Frequency Response PO = 50 W, 20 Hz - 20 kHz±1dBPower Bandwidth20Hz - 20kHz, ±3dBSignal-to-Noise Ratio Unweighted, 20Hz - 20kHz Ref> 85dBTotal Harmonic Distortion, THD< 0.2% @ 2kHz	Output Clipping Level DNA2404CL / DL	70 V RMS	
Power Bandwidth 20Hz - 20kHz, ±3dB Signal-to-Noise Ratio Unweighted, 20Hz - 20kHz Ref > 85dB Total Harmonic Distortion, THD < 0.2% @ 2kHz	Output Clipping Level DNA2404CH / DH	100 V RMS	
Signal-to-Noise Ratio Unweighted, 20Hz - 20kHz Ref > 85dB Total Harmonic Distortion, THD < 0.2% @ 2kHz	Frequency Response PO = 50 W, 20 Hz - 20 kHz	±1dB	
Total Harmonic Distortion, THD < 0.2% @ 2kHz	Power Bandwidth	20Hz - 20kHz, ±3dB	
PO = 200 W 0.67 ohms Output Impedance, ZO DNA2404CL / DL 0.66 ohms PO = 200 W 0.6 ohms	Signal-to-Noise Ratio Unweighted, 20Hz - 20kHz Ref	> 85dB	
Output Impedance, ZO DNA2404CL / DL 0.6 / ohms PO = 200 W 0.6 ohms Output Impedance, ZO DNA2404CH / DH 0.6 ohms	Total Harmonic Distortion, THD	< 0.2% @ 2kHz	
Output Impedance, ZO DNA2404CH / DH 0.6 ohms		0.67 ohms	
Output Loading 20Hz - 20kHz Stable for any load 0Ω to ∞		0.6 ohms	
	Output Loading 20Hz - 20kHz	Stable for any load 0 Ω to ∞	

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9701 TAYLORSVILLE ROAD LOUISVILLE, KENTUCKY 40299 U.S.A.



Fault Relay		
Nominal Switching Capacity	1A 30 V DC, 0.3A 125 V AC (Resistive Load)	
Max. Switching Power	30 W (DC), 37.5 V A (AC) (Resistive Load)	
Max. Switching Voltage	110 V DC @ 0.27A, 125 V AC @ 0.3A	
Mechanical Note: For Proper Fan Operation Add a Minimum of 2" (51mm) Clearance		
Dimensions - with Rack-Mount Ears (HxWxD)	3.5" x 19" x 17" (89mm x 483mm x 432mm)	
Shipping Dimensions (HxWxD)	8" x 21" x 21" (203mm x 533mm x 533mm)	
Unit Weight - Ibs	19.2lb (8.7kg)	
Shipping Weight - Ibs	24.5lb (11.1kg)	
Mount	Rack-Mount Ears	
Environmental Specifications		
Operating Temperature Range	+32°F - +104°F (0°C - +40°C)	
Storage Temperature Range	-40°F - +158°F (-40°C - +70°C)	
Compliance		
DNA2404CL / DNA2404DL	FCC Part15, UL60065, CAN/CSA C22.2 No. 60065, IEC 60065, EN 60065, CB Certificate, UL1711 Listed, Made in America - BAA Compliant	
DNA2404CH / DNA2404DH	FCC Part15, UL60065, CAN/CSA C22.2 No. 60065, IEC 60065, EN 60065, CB Certificate, Made in America - BAA Compliant	

Dimensional Drawings



Atlas IED.W



Architect and Engineer Specifications

The DNA2404 Series of amplifiers are an integral part of the AtlasIED GLOBALCOM[™] Communications System. The 4-channel amplifier shall provide 4-600Watt at 70.7V channels or 100V channels and provide digital audio connections via a Dante[™] or CobraNet[®] audio distribution depending on the models.

The integrated NIC (Network Interface Card) shall include dual ports for redundant network connections. The system shall detect a failure in any of the amplifier channels and report the failure to the GLOBALCOM[™] System Console via Ethernet using standard SNMP protocol.

The integrated digital signal processor shall provide processing to include level control of individual circuits, up to 7 bands of parametric equalization, high pass filter, low pass filters signal delay of up to 25 ms on each channel. Ambient analysis control shall be achieved via an integrated ambient noise collector for each channel. Ambient analysis and control shall be accomplished via an adjustment of signal levels via external noise sensing and / or computer commands. Up to 2 sensors shall be connected to each channel. Ambient control of amplifier channels shall be in real time. All setup, monitoring, configuration, testing and control shall be under software control.

Front panel indicators include audio signal presence, clipping, card fault, temperature fault, ground fault and fan fault.

The rear panel is to include dual ethernet connectors (100Mbps), dual 4-pin Phoenix[™] style connectors for speaker line connection, eight (8) 3-pin Phoenix[™] style ambient noise sensor connections, power connectors and Fault Relay (NO/NC) to trigger an optional redundant back up amplifier switch model AtlasIED 1544BAS.

The Power Amplifier shall be capable of live or delayed paging, pre-recorded message playback, and muting of individual amplifier channels, zones, and zone groups in any combination when used with optional GCK software deployment.

Amplifier is able to function on Class A, B or AB Loudspeaker Circuits.

The Power Amplifier shall require 2 rack units of vertical space in a 19-inch rack.

AtlasIED DNA2404CL and DNA2404DL models comply with UL60065, CAN/CSA C22.2 No. 60065, IEC 60065, EN 60065, CB Certificate, and UL1711.

AtlasIED DNA2404CH and DNA2404DH models comply with UL60065, CAN/CSA C22.2 No. 60065, IEC 60065, EN 60065 and CB Certificate.

The DNA2404 Series of amplifiers are made in America, and are BAA Compliant.