IP116-D

GLOBALCOM® CONTROLLER

TECHNICAL DATA SHEET

PRODUCT SUMMARY

The AtlasIED IP116-D is a 1U rack-mount GLOBALCOM® hardware controller that serves as the core of an enterprise-wide Audio over IP (AoIP) communication system. It connects to microphone stations, VoIP telephones, amplifiers, loudspeakers, and third-party life-safety or building systems, managing live, delayed, and scheduled announcements while routing audio, control, and status signals across the network.

Preloaded with GCK software, including the GCK App for configuration and a one-year license (SKU GCK3-0), the IP116-D manages announcement sources, system endpoints, and control functions without requiring additional setup. Built on a robust hardware platform, it integrates Dante™ AoIP transport, logic I/O, relay control, and multiple audio interfaces to deliver reliable, synchronized operation.

The IP116-D supports Dante™ endpoints as well as additional IP-based devices such as AtlasIED IPX endpoints through the preloaded GCK software. It does not support CobraNet™ endpoints.

FEATURES

- Includes a one-year license for AtlasIED GLOBALCOM® GCK software (SKU GCK3-0), with standalone configuration via the GCK App.
- Handles live, delayed, and scheduled audio announcements across the system.
- Supports warm failover operation in Lifeline Mode (requires two controllers).
- Integrated Dante™ AoIP with 16x16 audio channels for message distribution and integration with remote Dante systems.
- Direct low-latency mic-to-amp routing for paging without using Dante channel capacity.
- Gigabit Ethernet network interface.
- Two balanced line inputs for external audio sources.
- Eight logic inputs and eight relay outputs for system control and monitoring.
- 1U rack-mount hardware design.

APPLICATIONS

- Airports
- Industrial
- Mass Transit
- Corporate
- Education

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TECHNICAL SPECIFICATIONS

For more information, see the **GCK GLOBALCOM®** control system software data sheet located at:
www.AtlasIED.com/vcf/5627/ATS005627D-GCK-DataSheet.pdf

Audio Performance	
Frequency Response	20 Hz – 20 kHz
Dynamic Range	90 dB (A-weighted)
CMRR	85 dB (60 Hz – 20 kHz)
THD	0.01 % @ 1 kHz, +6 dBu
Sampling Rate	48 kHz
A/D – D/A Conversion	24-bit

Balanced Audio Line Inputs	
Number of Inputs	2
Connector Type	6 Pin 3.81mm Euroblock (connector included)
Impedance	18 kΩ
Max Level	14 dBu

Video Output	
Connector Type	1x VGA, 1x HDMI 1.4

USB	
Connector Type	2x USB 2.0 Type A, 2x USB 3.0 Type A
Common Uses	Mouse, Keyboard, File Transfer

Logic Inputs	
Number of Inputs	8
Input Type	Dry contact (signal + shared common, grouped per pair)
Connector Type (Inputs 1-4)	10 Pin 3.81mm Euroblock (connector included)
Connector Type (Inputs 5-8)	10 Pin 3.81mm Euroblock (connector included)

Relay Outputs	
Number of Relays	8
Contact Form	Form C (SPDT, NO/NC)
Connector Type (Relays 1-4)	12 Pin 3.81mm Euroblock (connector included)
Connector Type (Relays 5-8)	12 Pin 3.81mm Euroblock (connector included)

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TECHNICAL SPECIFICATIONS - (CONTINUED)

Network	
Control / RTP Audio	1x RJ-45, Gigabit Ethernet
Dante AoIP	2x RJ-45 with link-failover redundancy, Gigabit Ethernet (not configured for Dante Primary/Secondary mode)
Dante Channels	16x16
VoIP Support	G.711 and G.722 codecs (RTP WAN)

Electrical	
Power	12V DC
Connector Type	2 Pin 3.81mm Euroblock (locking connector included)
Maximum Power Consumption	36W

Dimensions	
Rack Space	1U, 19"
Unit Only	438 × 44 × 197 mm (17.25" × 1.75" × 7.75")

Weight	
Unit Only	3.0 kg (6.5 lb)

Environmental	
Thermal Dissipation	123 BTU / Hr

Regulatory	
Safety	IEC/CSA/UL 62368-1
EMC	FCC Part 15 Subpart B (USA), ICES-003 (Canada), EN 55032, EN 55024, IEC 61000-3-2, IEC 61000-3-3
Other Certifications	RCM (Australia / New Zealand), BAA Compliant (Buy American Act)

Warranty	
Warranty Period	36 Months

Note: A headphone 3.5mm mini-jack and microphone 3.5mm mini-jack are included on the product but do not serve towards the operation of the controller and GCK software.

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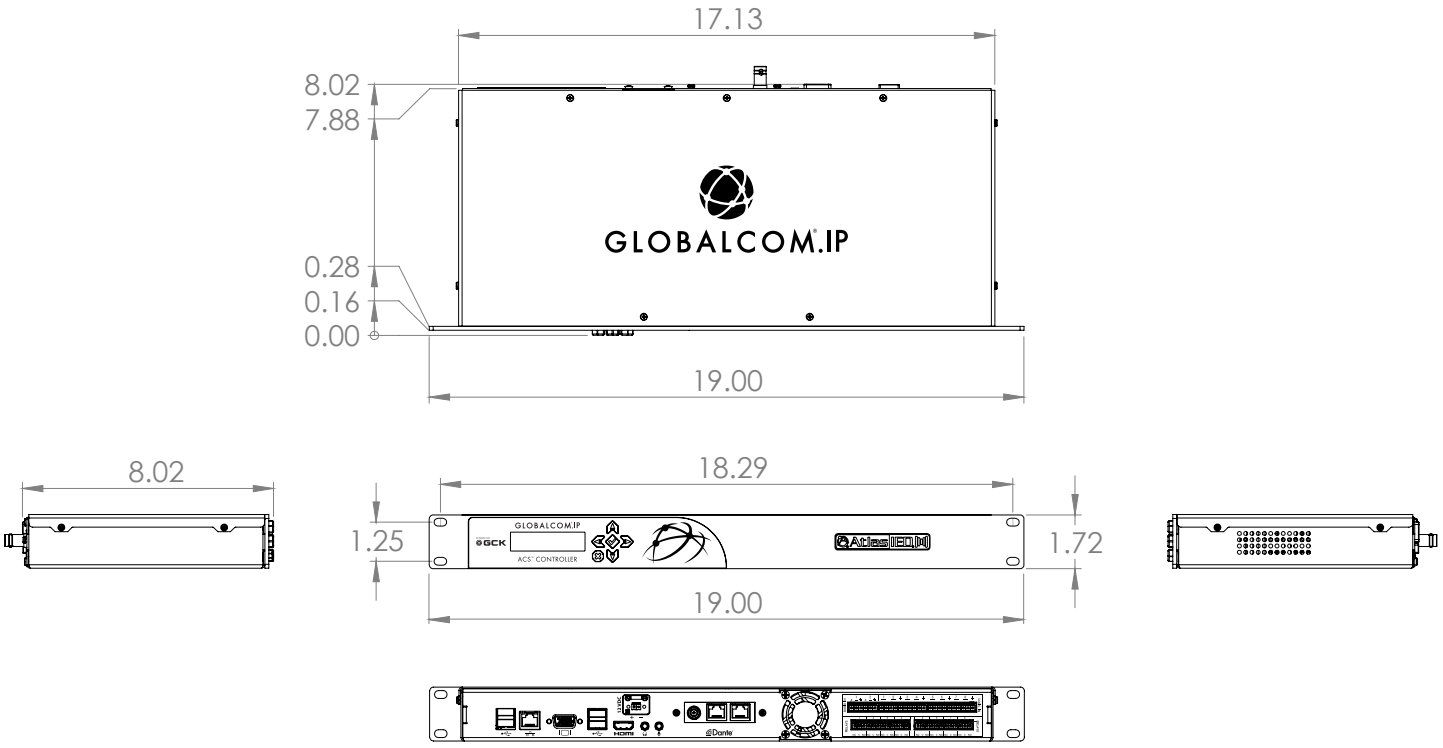
TECHNICAL DATA SHEET

DIMENSIONAL DRAWINGS



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ARCHITECT & ENGINEER SPECIFICATIONS

The unit shall be the AtlasIED model IP116-D. The controller shall serve as the central processing device for live, delayed, and scheduled audio announcements within a network-based paging and communications system. It shall manage the distribution of recorded and real-time audio messages, route paging audio to amplifiers and endpoints, and provide system supervision and fault monitoring consistent with professional communications and life-safety environments. The controller shall support operation in normal or lifeline mode, where paired units provide warm failover redundancy to ensure continuity of operation.

The controller shall support a frequency response of 20 Hz to 20 kHz, a dynamic range of 90 dB (A-weighted), and total harmonic distortion not exceeding 0.01% at 1 kHz with +6 dBu input. All audio conversions shall be 24-bit at a 48 kHz sampling rate. It shall provide two balanced audio line inputs on 6-pin Euroblock connectors with 18 kΩ impedance and a maximum input level of +14 dBu.

The controller shall provide eight logic inputs, dry contact type, grouped per pair with shared common, with termination on 10-pin Euroblock connectors. It shall provide eight relay outputs, Form C (SPDT, NO/NC), terminated to 12-pin Euroblock connectors.

The controller shall provide one RJ-45 Gigabit Ethernet port for control and RTP audio. It shall provide two RJ-45 Gigabit Ethernet ports for Dante AoIP with link-failover redundancy, not configured for Dante Primary/Secondary mode. Dante connectivity shall support 16x16 channels. The controller shall support VoIP operation with G.711 and G.722 codecs for RTP WAN communication.

Video outputs shall include one VGA and one HDMI 1.4 port. Four USB ports shall be provided (two USB 2.0 Type A and two USB 3.0 Type A) for use with mouse, keyboard, or file transfer.

The controller shall operate on 12V DC power input via 2-pin Euroblock (locking type) with a maximum power consumption of 36W. It shall be designed for standard 19-inch rack mounting, occupying 1U of rack space, and shall not exceed 438 × 44 × 197 mm (17.25" × 1.75" × 7.75") in physical dimensions. The unit shall not exceed 3.0 kg (6.5 lb) in weight. Thermal dissipation shall not exceed 123 BTU/hr.

The controller shall conform to IEC/CSA/UL 62368-1 safety requirements and comply with FCC Part 15 Subpart B (USA), ICES-003 (Canada), EN 55032, EN 55024, IEC 61000-3-2, and IEC 61000-3-3. The unit shall also carry RCM certification for Australia and New Zealand and meet the requirements of the Buy American Act (BAA) for eligibility in U.S. federally funded projects.

The controller shall be the AtlasIED model IP116-D.