

# IPCSD1 / IPCSD4

## GLOBALCOM®.IP Digital Microphone Stations



IPCSD1



IPCSD4

### Features

The IPCSD Series digital microphone stations provide immediate high-quality digitization of full bandwidth audio, and transmission over a standard Ethernet connection. The microphone stations utilize the 501HH teardrop handheld microphone that includes a programmable push-to-talk switch. The station uses a metal magnet landing area for the 501HH to provide a storage position for the microphone.

In the standard configuration, the microphone stations can be mounted using a standard 2-gang electrical box or a 1-gang electrical box using the included plastic backbox. An optional weighted based (IEDA520DTB) is available for desktop mounting configurations.

The microphone stations have indicators for power, busy and ready states, as well as a beeper to alert the operator during certain states of the microphone station.

- IPCSD1 model has no push buttons
- IPCSD4 model has four push buttons
- Networkable with Ethernet ports
- Integrated Audinate Dante® Digital Message Transport over the Network
- PoE powered

### Push Buttons

The IPCSD4 digital microphone station features four selection buttons. These buttons are configured using the GCK™ software to function as one-touch action buttons to trigger any of the following types of announcements or messages:

- A live page to a designated zone group
- A recorded (delayed) page to a designated zone group
- A permanent message playback to a designated zone group (e.g., customer reminder or emergency message)

### General Description

The IPCSD4 digital microphone station is a 4-button device for initiating audio / visual announcements, messages and pages with the GLOBALCOM® IP100 Series Announcement Control Systems. The IPCSD1 is a push-to-talk switch only digital microphone station. It is a network appliance with a unique IP address that requires no configuration.

Just like IED's other digital microphone stations, the IPCSD Series uses a single Ethernet interface for audio and control data. The IPCSD Series is fully compatible with IEEE 802.3af standard for Power over Ethernet (PoE), allowing the microphone station to be powered directly from any standard off-the-shelf PoE switch.

These microphone stations are designed to maximize the benefits of a standard Ethernet LAN-based network, using off-the-shelf switches and structured CAT5e or better cabling. The IPCSD Series utilize Dante® technology for transporting high-quality, low-latency digital audio over Ethernet.

The IPCSD Series microphone stations may be used as part of a life safety system and also used for everyday paging functions.

### Network Requirements

The IPCSD Series digital microphone stations utilize Dante® technology licensed from Audinate Pty Ltd. Live audio on the data network is time sensitive and requires minimal latency through the network to ensure uninterrupted audio. The IPCSD Series digital microphone stations and Dante® operate on Layer 3 (IP Layer) of the OSI Model, but only within a Local Area Network (LAN) or Virtual Local Area Network (VLAN). This audio traffic will not operate across a Layer 3 Router or above. The network should support Quality of Service (QoS) and Prioritization for best audio performance. All connections to the IPCSD4 / IPCSD1 digital microphone station must be full duplex 100 Mbps Ethernet.

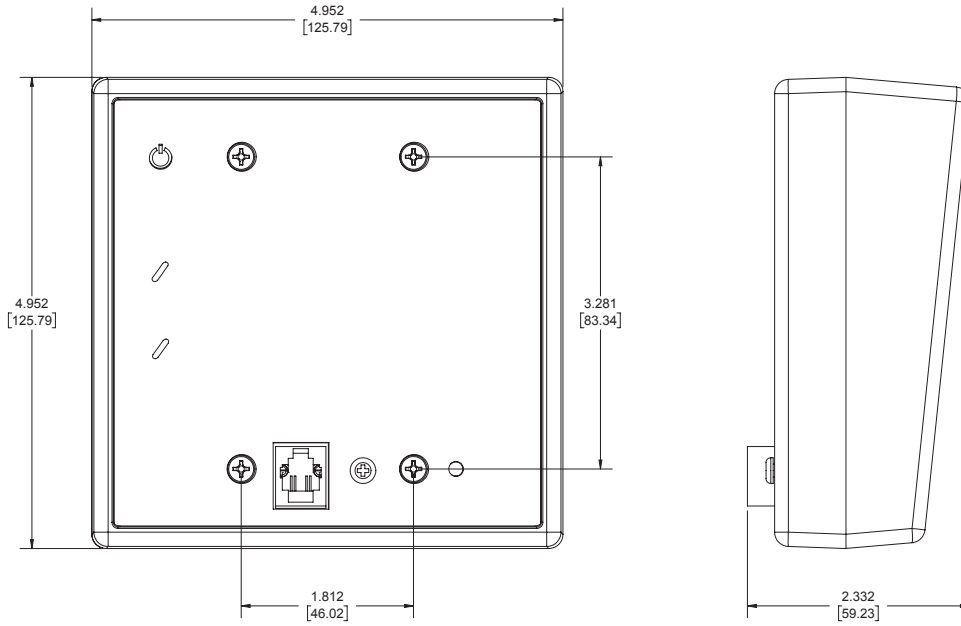
<b>Electrical</b>	
Frequency Response 22 Hz - 22 kHz, Input Level = -20 dBu	+2 dB, -5 dB
Total Harmonic Distortion, THD 22 Hz - 22 kHz, Input Level = 0 dBu	<1%
Signal-to-Noise Ratio, S/N 22 Hz - 22 kHz, Input Level = 0 dBu	>85 dB
Power Consumption	< 4 W
Supply Power	48 VDC
<b>Compressor</b>	
Compression Threshold	-14 dBu
Attack Time	35 mSec
Release Time	0.5 Sec
Analog-to-Digital Converter, A/D	24 bit
Sample Rate	48 kHz
<b>Mechanical</b>	
Desktop Dimensions	5.13" W x 4.89" H x 5.66" D (130mm x 124mm x 144mm)
Wall Mount Dimensions	4.95" W x 4.95" H x 1.9" D (126mm x 126mm x 48mm)
Mounting	2-gang Electrical Box
<b>Standards Utilized</b>	
Full-Duplex Operations	IEEE 802.3x
Fast Ethernet, 100Mbps	IEEE 802.3u, The IPCSD Series Specifically Uses 100Base-TX
Data Terminal Equipment Power via Media Dependent Interface (PoE)	IEEE 802.3af
<b>Connecting Cable</b>	
Digital Audio / Power / Control (Note 1)	CAT5e or better
<b>Environmental</b>	
Operating Temperature Range	+32°F to +104°F (0°C to +40°C)
Storage Temperature Range	-40°F to +158°F (-40°C to +70°C)

Note 1: For distances to a maximum of 100 Meters (approximately 300 feet) to the connected switch. Cable installed and tested in accordance with AN-SI/TIA/EIA 568B Standards.

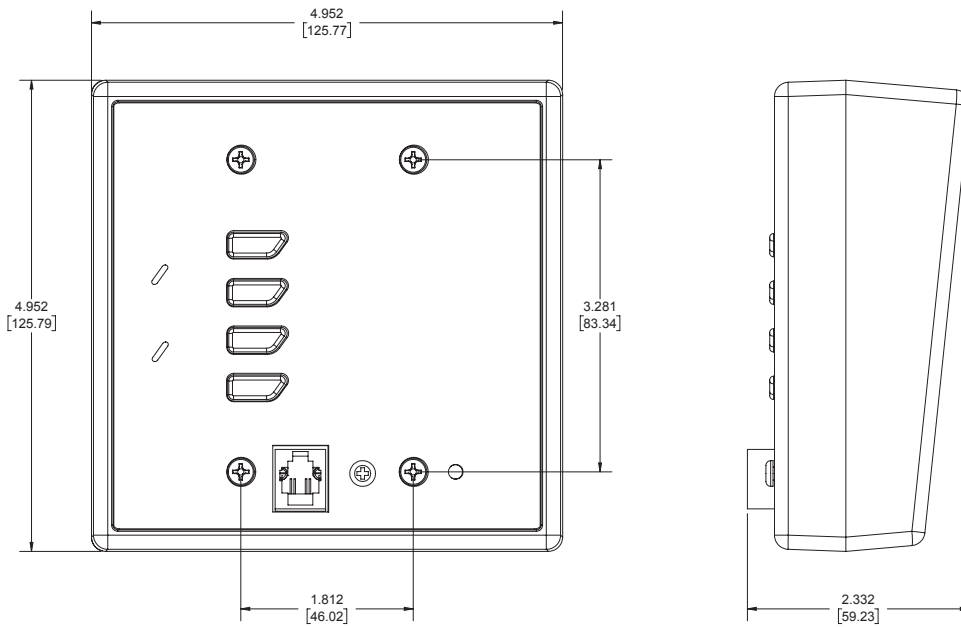
Note: These units are not compatible with 500, 510 or 520 series Announcement Control Systems (ACS), nor at this time with the GLOBALCOM® vACS systems.

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Dimensional Drawings



IPCSD1



IPCSD4

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## Architect and Engineer Specifications

The digital microphone stations shall provide for immediate digitization of full bandwidth audio, and transmission over a standard Ethernet connection using the Integrated Audinate Dante® Digital Message Transport. The digital microphone stations shall have indicators for power, busy and ready states, as well as an audible signal device to alert the operator to the status of the Microphone Station while in operation. The digital Microphone Station shall be powered via PoE (Power over Ethernet) connection and be networkable thru the Ethernet ports provided on the rear chassis.

The Digital Microphone Station shall utilize a line level handheld microphone that includes a programmable push-to-talk switch.

The Microphone Station shall mount using a standard 2-gang electrical box or a 1-gang electrical box when using the included plastic back box.

An optional weighted base shall be available for desktop mounting configurations.

The Digital Microphone shall be available in 2 configurations

- D1 model has the PTT (Push to Talk) function only.
- D4 model has the PTT (Push to Talk) function plus four individually programmable buttons to address other zones or to initiate events within the GLOBALCOM® System.

The Digital Microphone Station shall be the AtlasIED IPCSD.