IPCSDTouch-H & -G

GLOBALCOM®.IP Touch Screen Digital Communication Station

IPCSDTouch-H

IPCSDTouch-G

Features

- Fully programmable touch screen user interface
- Supervision of the microphone element
- Handheld, Gooseneck, Surface (flat) or Desktop (free standing) versions
- Network Ready with Redundant Ethernet ports
- PoE powered
- Integrated Audinate Dante™ Digital Message Transport over the Network

General Description

The IPCSDTouch digital communications station is a fully programmable touch screen user interface device for initiating audio / visual announcements, messages, and pages with the GLOBALCOM® Series Announcement Control Systems. Each model utilizes an electret condenser microphone cartridge that is positioned in the housing such that its frequency response is enhanced. The microphone element location provides the mechanism for good acoustical coupling to provide a full-bodied, highly intelligible voice signal.

The IPCSDTouch has an auxiliary line level audio input which may be used as a (local) background music source. The station also has a line level audio output which may be used as a zone out.

The IPCSDTouch is a network appliance in which each station may obtain its IP address automatically or be assigned a unique IP address which simplifies installation and configuration.

Front Panel Features

- Fully programmable touch screen user interface
- Alarm Indicator LED (red)
- Fault Indicator LED (yellow)
- Busy Indicator LED (yellow)
- Ready Indicator LED (green)

IPCSDTouch-H (Handheld Microphone Version)

The handheld microphone assembly contains an omnidirectional electret condenser microphone cartridge integrated with a microphone preamplifier and an audio line driver. The microphone element and preamplifier are mounted in a teardrop shaped molded black textured Cyclolac™ housing. The use of an omnidirectional element eliminates the proximity effect which creates a boomy sound when a user speaks close to a microphone.

The electret condenser microphone cartridge consists of a high voltage internal membrane, metal electrode and a Field Effect Transistor (FET). The requirement for a high voltage bias is not necessary as with ordinary condenser microphone elements. The cartridge features include a highly efficient electrical specification, pressure type operating principle, low impedance (2.2 kΩ), and high reliability under adverse shock, vibration and other environmental conditions.

It utilizes a magnet for attachment to the microphone station base assembly and is supplied with a circular coiled cable which is built into the housing assembly. A strain relief is built into the housing end of the cable and locks into the housing. The terminations at each end are molded, 6 wire, RJ25 connectors which provide extra strength and resistance to failure by pull-out.

IPCSDTouch-G (Gooseneck Microphone Version)

The gooseneck microphone contains an omnidirectional electret condenser microphone cartridge integrated with a microphone preamplifier and an audio line driver. The microphone element is mounted in the windscreen portion of the gooseneck. The preamplifier and line driver are on a PC board mounted inside the base of the gooseneck on an XLR connector. The microphone assembly is a 12" gooseneck with a windscreen at the top and a 5-pin XLR connector in the base for mounting.

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Electrical	
Auxiliary Supply Voltage	24 or 48 Volts DC
PoE Supply Voltage (IEEE 802.3af)	48 Volt
Supply Power (Max)	6.7 Watts
Auxiliary Input	
Frequency Response 22 Hz - 22 kHz, Input Level = 0 dBu	±0.5 dB
Total Harmonic Distortion, THD 22 Hz - 22 kHz, Input Level = 0 dBu	<0.2%
Signal-to-Noise Ratio, S/N 22 Hz - 22 kHz, Input Level = 0 dBu	>85 dB, Maximum Input Level +4 dBu
Auxiliary Output	
Frequency Response 22 Hz - 22 kHz, Input Level = 0 dBu	±0.5 dB
Total Harmonic Distortion, THD 22 Hz - 22 kHz, Input Level = 0 dBu	<1.5%
Signal-to-Noise Ratio, S/N 22 Hz - 22 kHz, Input Level = 0 dBu	>85 dB
Microphone Input	
Frequency Response 22 Hz - 22 kHz, Input Level = 0 dBu	±0.5 dB
Total Harmonic Distortion, THD 22 Hz - 22 kHz, Input Level = 0 dBu	<0.03%
Signal-to-Noise Ratio, S/N 22 Hz - 22 kHz, Input Level = 0 dBu	>85 dB
Digital Audio Processing	
Compression Threshold	–15 dBu
Compression Ratio	10:1
Compression Attack Time	22 mSec
Compression Release Time	1 Sec
Maximum Output (Level)	+4 dBu
Analog-to-Digital Converter, A/D	24 bit
Internal Processing	32 bit, Floating Point
Sample Rate	48 kHz
Mechanical	
Desktop Dimensions	11.82" W x 6.19" H x 6.08" D (300 mm x 157 mm x 154 mm)
Wall Mount Dimensions	11.82" W x 6.26" H x 2.01" D (300 mm x 159 mm x 51 mm)
Environmental	
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)
Connectors	
Auxiliary Power	2-pin Phoenix, 3.81 mm spacing with locking screws
Auxiliary Audio In / Out (2)	3-pin Phoenix, 3.81 mm Pitch

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LCD Touchscreen	
Screen Size	7"
Screen Resolution	800 x 480
Active Area Width	6" (152mm)
Active Area Height	3-5/8" (91mm)
Touch Technology	Projected Capacitive
Touch Resolution	1500 x 900
LCD Light Output (cd/m2 - nits)	350
Contract Ratio	400:1
Viewing Angle (H x V)	140/130

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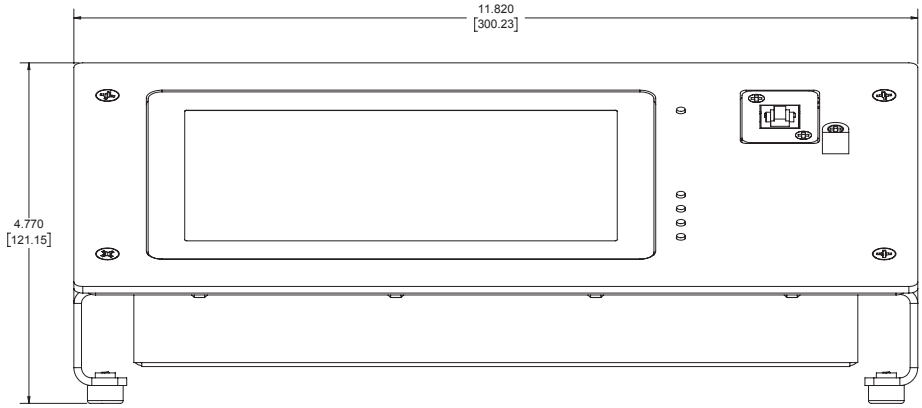
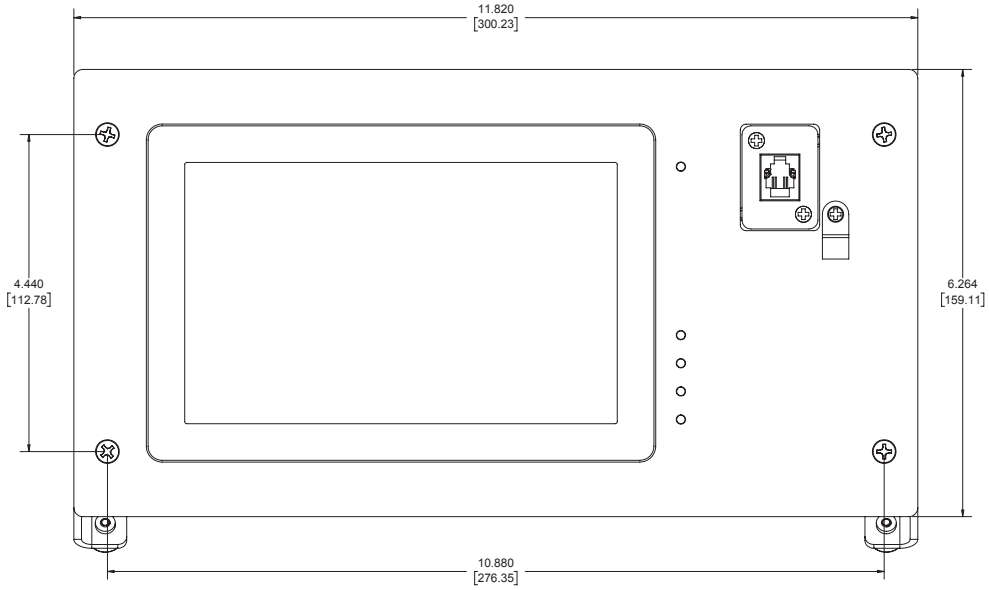
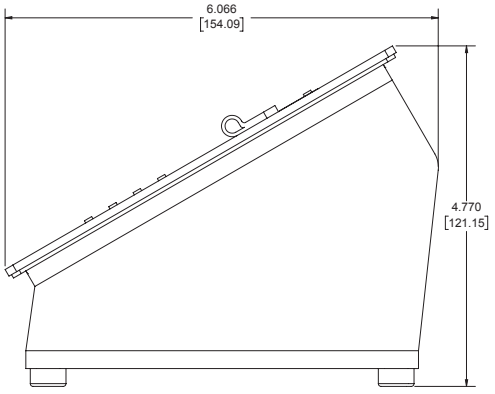
Dimensional Drawings







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Architect and Engineer Specifications

The touchscreen 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 touchscreen digital microphone stations shall a fully programmable touchscreen interface with a 7" LCD diagonal screen with 800 x 480 resolution and capacitive touch technology. The touchscreen shall provide ability to initiate audio / visual announcements, messages, and pages. It shall have indicators for power, busy, ready, fault, and alarm states, as well as an audible signal device to alert the operator to the status of the Microphone Station while in operation. The touchscreen digital microphone station shall be powered via PoE (Power over Ethernet) connection and be networkable through the Ethernet ports provided on the rear chassis. It shall include a secondary Ethernet port for redundant backup capability.

The digital microphone station shall provide two microphone configurations.

The first option shall be -H version with a condenser handheld microphone with a programmable push-to-talk switch integrated with a microphone preamplifier and an audio line driver. The microphone element and preamplifier shall be mounted in a teardrop shaped molded black textured housing. It shall utilize a magnet for attachment to the microphone station base assembly and be supplied with a circular coiled cable which is built into the housing assembly. The terminations shall be a molded, 6 wire, RJ25 connectors which provide extra strength and resistance to failure by pull-out.

The second microphone option shall be -G version with a gooseneck microphone providing an omnidirectional electret condenser microphone cartridge integrated with a microphone preamplifier and an audio line driver. The microphone element shall be mounted in the windscreen portion of the gooseneck. The preamplifier and line driver are on a PC board mounted inside the base of the gooseneck on an XLR connector. The microphone assembly shall be a 12" gooseneck with a windscreen at the top and a 5-pin XLR connector in the base for mounting.

The touchscreen digital microphone stations shall provide the ability to mount into a flat surface or desktop free standing configuration.

The Digital Microphone Station shall be the AtlasIED IPCSDTOUCH.

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