DIGITAL ACOUSTICS

Intercom

Full Duplex IP Intercom / IP Paging Amplifier

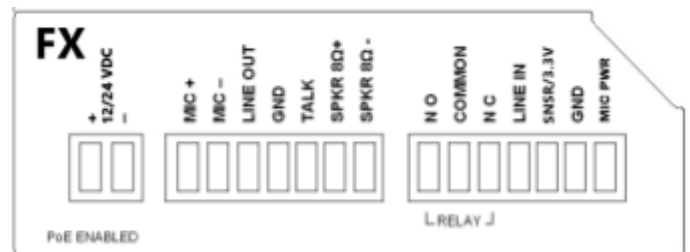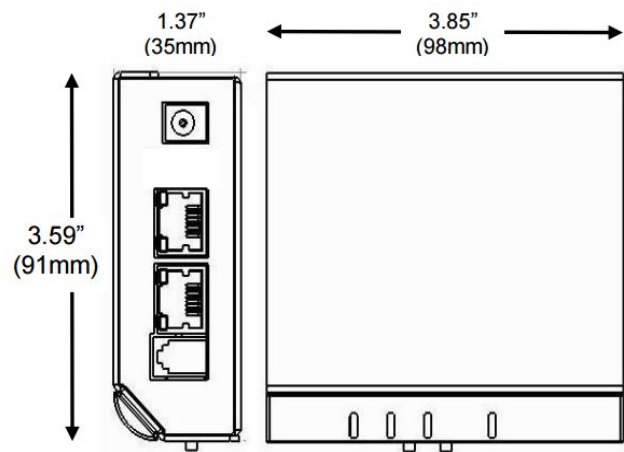**IP Endpoint for Call Stations & Speakers**

Description:

Digital Acoustics Full Duplex / Single Transducer IP Intercom module (**IP7-FX)** is a flexible, PoE ready device that easily and conveniently converts analog call stations or speakers to IP based two-way communication. Supports TalkMaster, SIP 2.0, and Singlewire™ protocols.

The on-board relay can be used for remote door lock, triggers, and signals. When used with Digital Acoustics' TalkMaster™ Software, you can have a simplified and convenient management tool for paging and intercom control all from a single PC.

Features:

- **True full-duplex IP audio Intercom with Acoustic Echo Cancellation**

- **Power-over-Ethernet (PoE) or external 12VDC or 24VDC**

- **Integrated Audio Amplifier supplies 8 watts @ 12VDC/PoE and 25 watts @ 24VDC to the speaker**

- **On-board relay and sensor for door/gate access control and management**

- **Includes a 2-port 10/100 network switch (connect a second device)**

- **Supports half-duplex audio using a separate Mic and Speaker or with the Speaker doubling as a Mic (single transducer mode)**

- **Converts analog call station or speaker to IP-based two-way communications**

- **Replaces IP7-FD, IP7-SS8/SE8, IP7-SS20 and IP7-STx**

Hardware Specifications

Network Protocols TCP, UDP, RTP, SIP, ICMP, IGMP Multicast
Network Interface 10/100 Base-T Ethernet, Auto-MDIX
Network Ports (RJ 45) 2
Core Technology ICC-512 50 MIPS System on a Chip
IP Address Assignment Static, DHCP
Transport Bandwidth Nominal 64kbps (Voice)
Audio Protocol 8-bit PCM/G.711 uLaw
Audio Latency <200ms Auto-Adaptive
Audio Line In Nominal 1V p/p
Amplifier Type Class D, Balanced Transformerless
Speaker Out 8 Watts (PoE or 12VDC) 25 Watts (24VDC)
Microphone Balanced, Pseudo-differential / AGC > 40dB
Single Transducer, Speaker doubles as Mic (half-duplex only)
External I/O Relay: 250 VAC / 30VDC @ 60W / 1500 VAC Isolation; Sensor Input External Active Low
External Power Out SNSR\3.3V provides 3.3 (current limited) to power an LED; Mic Pwr provides 12V (current limited) to power an LED or Line Level Mic
Power Voltage 12VDC @15W or 24VDC @ 25W
PoE Standard 802.3af (15.4W)
Diagnostics LED Status, Temperature and Power Monitoring
Programming Flash programmable via USB, Ethernet
Fault-Management Advanced Fail-Forward™ fault detection
Connector I/O 3.81mm DIN Pluggable, RJ45, USB-B, RJ10
Direct Peripheral Support Mic In, Line In, PTT, Relay (NO/NC), Sensor, Speaker Out, Line Out, I2C
Temperature (ºC) -30~70 (Operating), -40~85C (Storage)
Size 3.85 x 3.59 x 1.37 in (98 x 91 x 35 mm)

Connection Modes:

TalkMaster™ Focus Endpoint
SIP 2.0 Endpoint
Hybrid TalkMaster™ Focus/SIP 2.0 Endpoint
Direct Mode
Singlewire Informacast

CE   FC   RoHS COMPLIANT

1.37" (35mm)   3.85" (98mm)

3.59" (91mm)

FX

+ 12/24 VDC − | MIC + | MIC − | LINE OUT | GND | TALK | SPKR 8Ω+ | SPKR 8Ω − | N O | COMMON | N C | LINE IN | SNSR/3.3V | GND | MIC PWR

PoE ENABLED   ⌐ RELAY ⌐

IP7- FX Connectors

Visit www.kintronics.com to learn about software products to complete your IP audio system.