

Intercom

## Full Duplex IP Intercom / IP Paging Amplifier

IP Endpoint for Call Stations &amp; Speakers



### 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

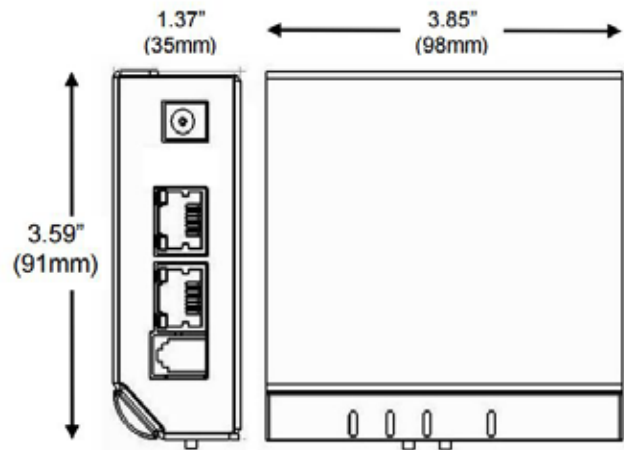
### Description:

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.

## 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  
**Amplifier Type** Class D, Balanced Transformerless  
**Microphone** Balanced, Pseudo-differential / AGC > 40dB  
**Line In** Nominal 1V p/p  
**Speaker Out** 8 Watts (PoE or 12VDC) 25 Watts (24VDC)  
**Line Out** Pro Audio (2 Volts Peak to Peak)  
**Single Transducer**, Speaker doubles as Mic (half-duplex only)  
**Relay** 250 VAC / 30VDC @ 60W / 1500 VAC Isolation  
**SNSR\3.3V** Input sensor / 3.3V (current limited) to power LED  
**Mic Pwr** 12V (current limited) to power LED or Line Level Mic  
**Input 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 (°C)** -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



IP7- FX Connectors



Visit [www.DigitalAcoustics.com](http://www.DigitalAcoustics.com) to learn about software products to complete your IP audio system.

