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HARDWARE DATASHEET

P/N: IP7-FX

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.

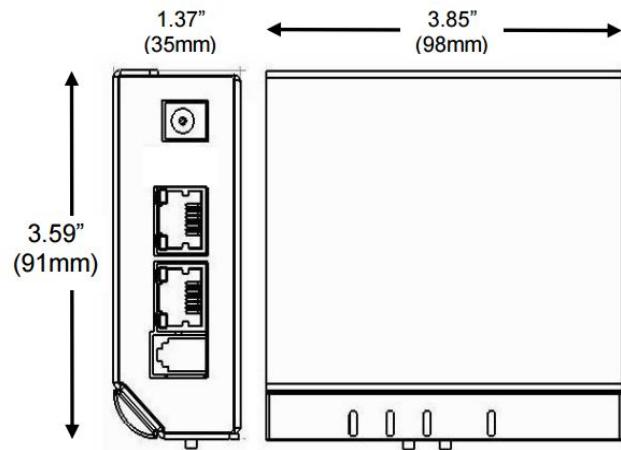
The on-board relay can be used for remote door lock, triggers, and signals. When used with Digital Acoustics' TalkMaster™ Software, you can have a simplified and convenient management tool for paging and intercom control all from a single PC.

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
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 to learn about software products to complete your IP audio system.

