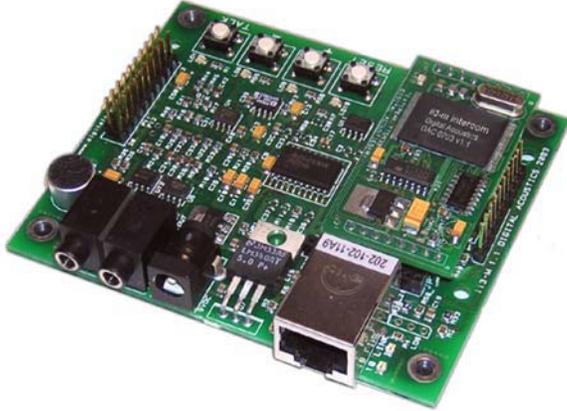# IP Intercom – OEM Module

Digital Acoustics' **IP Intercom Series** (TCP/IP) provides a functional audio equivalent to the basic Push-to-Talk point-to-multipoint intercom. Simply connect the module to a 10/100 Ethernet network and communicate to a host server PC by voice.

The **OEM Module** is designed for system integrators and OEMs who wish to add two-way audio communications to their systems. Using Digital Acoustics' patent-pending technology, intercoms are easy to connect and offer both audio transport and multiple GPIO ports. "Personality modules" allow connection to various I/O devices.

The **IP Intercom Series** is capable of delivering voice quality audio over Ethernet, wireless (802.11b/g) and fiber, in local area or wide area networks. Designed to be point-to-multipoint, the **IP Intercom Series** also supports a cost-effective point-to-point Direct Mode allowing you to connect two intercoms without the need for a Server PC.

Applications include commercial, industrial and residential access control; security systems; intrusion detection systems; military command and control; checkpoint management; IT help desks; school classroom communications; remote audio relay for radio; and many more.

Key benefits of the **IP Intercom Series** include:

❑ Fast deployment, easy to install
❑ Expandable to 100s of stations
❑ Fully utilize existing TCP/IP networks
❑ Increase security through two-way communications

❑ Reduce operating costs through consolidated command centers
❑ Reduce wiring costs through shared transport (CAT5)
❑ Easily combines with network video solutions adding two-way audio for monitoring end-points

TalkMaster™ Software

The power of utilizing the TCP/IP network is realized with the TalkMaster PC Server application. Providing a central command and control solution for both local and wide area end points, TalkMaster provides all the critical tools to easily manage two-way communications.

- Audio access and management for all ii3 IP intercoms
- Selective or Master call to page all stations
- Master control and auto detection of stations (Integrated UDP polling)
- Remote and Local Digital Volume Control
- Utilizes PC Multimedia microphone and speaker for audio access to intercoms
- Supports International Language Command responses
- Remote door release & GPIO Control
- Audio file playback (.WAV)
- Log sessions and Record/Archive audio
- **iTalk/X** ActiveX Software Development Kit (SDK) for custom integration

TalkMaster™
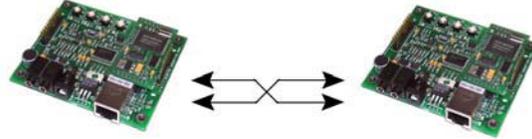
activex

OPERATING MODES

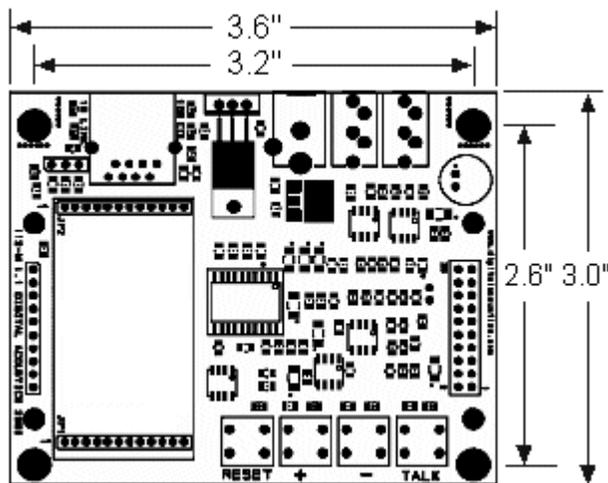| PC-SERVER	DIRECT
Server PC with TalkMaster™ software connected to multiple Intercom Client(s). (Point-to-Multipoint)	One **IP Intercom** configured as 'Server' connected to a another as 'Client'. (Point-to-Point)
	Connect Direct with Crossover Cable or via Hub/Switch

HARDWARE SPECIFICATIONS

Hardware Protocols	TCP, UDP, IP, ARP, ICMP, Ethernet MAC
Network Interface	10/100 Base-T Ethernet (Auto detection) RJ-45
IP Address Assignment	Static or Automatic via DHCP
Command protocols	Proprietary
SoftSwitch capabilities	User defined, programmable, bi-directional
SoftSwitch interface	3 non-isolated 5v HC-CMOS type I/O (GPIO)
LED Indicators (4)	Active, Link, Monitor & Talk (Default), Programmable
System OS	Flash programmable
Audio Resolution	PCM-8bit and uLAW-16 bit
Audio Sample Rate	8 kHz (Voice band)
Audio Buffers	4KB TX and RX
Audio Latency	Proprietary auto-latency receiver. Target delay < .5 seconds. Typical ~ .3
Internal Amplifier	2w Max @ 4 ohms
Microphone sensitivity	-42db integrated electret
Microphone AGC	37db with limiting and automatic leveling
Transport Bandwidth	~80kbps over TCP/IP per session
Temperature / Humidity	0°C ~ 70°C (Operating), -40~85°C (Storage) / 10~90%
MTBF	MIL-STD-785B (Calculated) on ii3-M = 1.1M Hours
Power	7.5-9 VDC ext. or 5 VDC (300MA min) 2.1mm Tip Positive
Connector types	2x10 .1" Pin header array, 3.5mm Mic In, 3.5mm Audio Out
Size	3.6" x 3.0" x .70" (92mm x 77mm x 17mm)

PHYSICAL SPECIFICATIONS	SOFTWARE REQUIREMENTS

PHYSICAL SPECIFICATIONS

3.6"
3.2"
2.6" 3.0"
RESET + — TALK
Maximum Height .70"

SOFTWARE REQUIREMENTS

TalkMaster™

Minimum System Requirements "LE" Version

Operating System
Windows® 98, Windows ME, Windows NT4 (SP6), Windows 2000, Windows XP

Hardware Requirements
Processor: Pentium® II 500 mhz
Memory: 128MB or greater
Installed Disk Space: 6MB
Multimedia: Sound card

IP Intercom – OEM Module