

IP7 SERIES

IP/ETHERNET AUDIO SOLUTIONS

... clearly making waves



Flexible IP7 Series Products power the most demanding intercom and paging applications. Voice-quality audio is delivered over Ethernet/IP in local area (LAN) and wide area networks (WAN). The series' modular, IP edge-device design provides for superior scalability in applications of all sizes-- assuring success today and in the future.

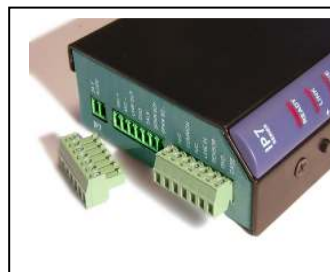
IP INTERCOM SYSTEMS

- ☑ Unique design and flexibility supports both new and retro-fit applications
- ☑ Converts analog call station or speaker for IP-based two-way communications
- ☑ Durable Industrial Design with DIN rail mount or optional surface mount
- ☑ On-board relay and sensor for door/gate access control and management
- ☑ Multicast Protocol enables seamless, clear, low bandwidth audio distribution
- ☑ Flexible Audio I/O supports Electret or Dynamic microphone and Line In/Out

Digital Acoustics, LLC

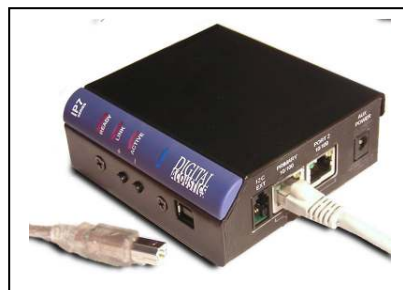
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ST IP Intercom

- Simple configuration and easy installation
- Clear, crisp audio using 64 kbps bandwidth
- Utilize existing IP Network Infrastructure
- Operates over wired, wireless or fiber networks
- Power over Ethernet (PoE) and DC support



Additional Features

- Optional Integrated 10/100 Two-Port Switch
- Connect to VoIP Systems via TalkMaster™ SIP Media Gateway
- USB and Ethernet support for setup/diagnostics

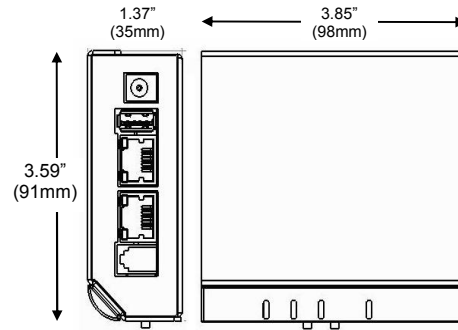
Applications

- Door/Gate Communication and Access
- Classroom Intercom and Paging
- Building, Campus, Corporate Communication
- Customer Service Support
- Points of Distress Intercom

Vertical Markets

- Education
- Security
- Parking
- Transportation
- Government

Network Protocols TCP, UDP, IP, ARP, ICMP, IGMP, MULTICAST
Network Interface 10/100 Base-T Ethernet, Auto-MDIX
Core Technology ICC-256 50 MIPS SoC (System On A Chip)
IP Address Assignment Static, DHCP
Transport Bandwidth 64kbps Nominal
Audio Protocol G.711. 8/16bit PCM/uLaw
Audio Latency <200 Auto-Adaptive
Audio Line In/Out Nominal 1V p/p
Speaker Out ST/STX: 2 Watts / SE8: 8 Watts - Balanced Transformerless (BTL)
Microphone Balanced, Pseudo-Differential / AGC > 40db
External I/O Relay: 250 VAC / 30VDC @ 60W / 1500 VAC Isolation;
 Sensor Input: External Active Low
Expansion Bus I2C for multiple relays, data acquisition sensors, displays, keyboards – requires custom integration.
Power (Nominal) ST/STX: 9-32VDC @ 5W / SE8: 12-15VDC @ 15W
PoE Standards ST/STX: (7W) / SE8: (15.4W) - 802.3af
Diagnostics LED Status, USB, Temperature and Power Monitoring
Programming Flash programmable via USB, Ethernet
Fault Management Advanced Fail-Forward™ fault detection
Connector I/O 3.81 MM DIN Pluggables, RJ45, USB-B, RJ10
Direct Peripheral Support Mic In, Line In, Speaker, Line Out, PTT, Relay (NO/NC), Sensor, I2C, USB-B, LEDs
Temperature -30~70 C (Operating), -40 C~85 C (Storage)
Size 3.85 x 3.59 x 1.37 in (98 mm x 91mm x 35mm)



Ordering Information:

Hardware

Part #	Spkr Out	Pwr	Ethernet	Other
IP7-ST	1-Watt	PoE	Single	
IP7-STX	1-Watt	PoE	Dual	
IP7-SE8	8-Watt	PoE	Dual	High Output Speaker

Includes: DIN Mounting Clip, 3.81 MM Plugs

Software

Part #	Description
TM-LE	Single Console Command Software (Included)
TM-EE	Multi-Console Command Software
TM-SMG	SIP Media Gateway (VoIP Access)



SOFTWARE APPLICATIONS

- ❑ **TalkMaster™ LE** - Single console intercom and paging installations. Control and configure all intercoms and paging amplifiers from a single computer. Paging groups easily allow the console operator to send microphone or pre-recorded messages to groups of intercoms.
- ❑ **TalkMaster™ Enterprise Edition** - Multi-console command software for sophisticated installations with 1000's of IP audio end-points. Control and configure intercoms and IP paging amplifiers from central console. Multiple computer consoles can share and control grouped or individual intercoms and paging amplifiers.
- ❑ **TalkMaster™ SMG - SIP Media Gateway** integrates the TMEE Intercom and Paging System into any SIP Version 2.0 compliant VoIP telephony system.
 - Assign Intercom and Paging end-points to telephone extensions.
 - Create and manage paging groups.
 - Create out-dial extensions so intercoms can call mobile phones.

SOFTWARE DEVELOPMENT KITS

- ❑ **TMEE Hardware SDK** - For developing client-server or single console applications. The DLL controls the IP Socket connections, provides a "Call Back" mechanism to report events and delivers the raw audio stream allowing your application to playback or transfer it to another computer or device. No GUI elements are included.
- ❑ **TMEE Console SDK** - Used to create custom Console applications that integrate with TMEE Server. The DLL communicates through the TMEE Server for all intercom communications. Each instance of a custom application requires a TMEE Console License. Allows you to leverage all the capabilities of the TMEE Server.

DIGITAL ACOUSTICS® PRODUCT FAMILY

Intercoms and I/O Expansion products



ICC™ based IP Paging and Intercom board products



Speaker solutions to fit your specific needs



Software Development Kits

Integrate intercom and paging solutions into your application.

TalkMaster Enterprise Edition

- TMEE Hardware DLL
- TMEE Console DLL