

# 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.

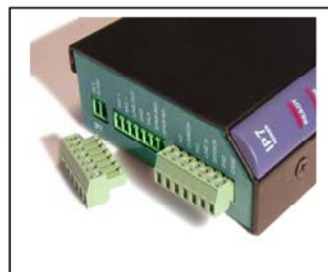
## IP INTERCOM SYSTEMS

- ☑ 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

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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 AC/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

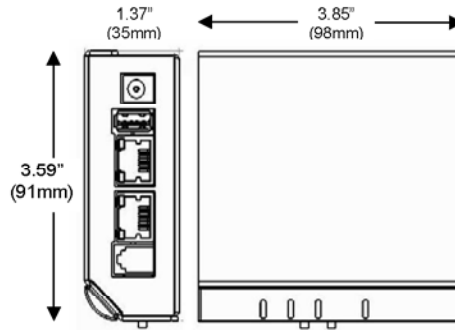
### Applications

- 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
- Financial Services

**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** 64kbs Nominal  
**Audio Protocol** G.711. 8/16bit PCM/uLaw  
**Audio Latency** <200 Auto-Adaptive  
**Audio Line In/Out** Nominal 1V p/p  
**Microphone** Balanced, Pseudo-Differential / AGC > 40db  
**Audio Power Out** 1W / 8 Ohm Balanced Transformerless (BTL)  
**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)** 9-24VAC or 9-32VDC @ 3W (Dual Port 4W)  
**PoE Standards** 802.3af (4W)  
**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		
<b>IP7-ST</b>	2-Watt PoE	Single Ethernet Port
<b>IP7-STX</b>	2-Watt PoE	Dual Ethernet Port

Includes: DIN Mounting Clip, 3.81 MM Plugs

Software		
<b>TM-LE</b>	Single Console Command Software (Included)	
<b>TM-EE</b>	Multi-Console Command Software	
<b>TM-SMG</b>	SIP Media Gateway (VoIP Access)	



SOFTWARE APPLICATIONS

- 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.
- 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

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

**IP7 Series 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