



... 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 PAGING SYSTEMS

- ☑ 8 Watt IP Audio Amplifier with Power over Ethernet (PoE)
- ☑ Powerful 20 Watt Audio Amplifier for High Output or Multiple Speakers
- ☑ Integrate with VoIP Telephony Systems using TalkMaster™ SIP Media Gateway (SIP 2.0 Compatible)
- ☑ Multicast Protocol enables seamless, clear, low bandwidth audio distribution
- ☑ Supports multiple speaker types and 8Ω and 25/70 Volt Distribution Lines
- ☑ Durable Industrial Design with DIN rail mount or optional surface mount
- ☑ Optional Integrated Dual 10/100 Switch, Relay, Sensor and Audio Line Out

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SS20 20 watt Audio Amplifier

- Powers zone of multiple speakers or high output horn
- Class D amplifier design for clear, crisp audio
- Short Circuit and Thermal Protection
- Powered by 24VAC power source



SS8 8 watt Audio Amplifier

- Power over Ethernet (PoE), 802.3af Compliant
- Powers one or more speakers in a zone
- USB and Ethernet support for setup/ diagnostics



SE8 8 watt Amp Enhanced I/O

- 2 Two-Way Audio Enabled
- Integrated 2 Port Ethernet Switch
- External I/O for Relays & Sensors
- Designed for high noise environments



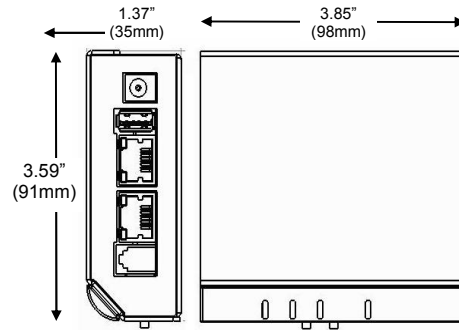
Applications

- Classroom, Campus and District-wide Paging
- Building, Campus, Corporate Communication
- DoD and Homeland Security 'Big Voice' Systems
- Intercom (two-way audio) in noisy environments
- Demanding Applications (Fast Food / Truck Stops)

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 Nominal 64kbps
Audio Protocol G.711. 8/16bit PCM/uLaw
Audio Latency <200ms Auto-Adaptive
Speaker Out SS8/SE8: 8 Watts / SS20: 20 Watts - 8 Ohms / 25-70V Line
Expansion Bus I2C for multiple relays, data acquisition sensors, displays, keyboards – requires custom integration.
Power (Nominal) SS8/SE8: PoE (15W)/(Opt:12VDC) SS20:24VAC/DC @ 50W +/- 5%
PoE Standards 802.3af (15.4W) SS8/SE8 Only
Diagnostics LED Status, USB, Temperature and Power Monitoring
Remote Diagnostics Reporting over USB and Ethernet
Remote Programming Flash programmable via USB, Ethernet
Fault Management Advanced Fail-Forward™ fault detection
Connector I/O 3.81 MM DIN Pluggable, RJ45, USB-B
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)



IP7-SE8 Additional Features

Microphone Balanced Pseudo-Differential / AGC >40db (Electret/Condenser/Other)
Audio Line In/Out Nominal 1V p/p
External I/O Relay: 250 VAC / 30VDC @ 60W / 1500 VAC Isolation (NO/NC);
 Sensor Input: External Active Low, PTT



Ordering Information:

Hardware

Part #	Spkr Out	Pwr	Ethernet	Other
IP7-SS8	8-Watt	PoE	Single	
IP7-SE8	8-Watt	PoE	Dual	2-Way & Enhanced I/O
IP7-SS20	20-Watt	AC/DC	Single	

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 OEM 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