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

### 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

### 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

### 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: 12C 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**
- 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**
- TM-LE Single Console Command Software (Included)
- TM-EE Multi-Console Command Software
- TM-SMG SIP Media Gateway (VoIP Access)

**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 TalkMaster 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.

**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.

**TalkMaster Enterprise Edition** - Integrates intercom and paging solutions into your application.
- TMEE Hardware DLL
- TMEE Console DLL

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