

TMG6200 MEDIA GATEWAY

COST EFFECTIVE ENTERPRISE MEDIA GATEWAY

A Flexible, Cost-Effective Platform That Can Evolve From TDM-Ip To All Ip. Intelligently Packaged In A Stackable 1U Chassis, It Is Designed To Interface Between TDM & IP Networks In Enterprises Or Small-Scale Carrier Locations



- **POWERFUL PROCESSING CAPACITIES**
- **MULTIPLE DENSITY OPTIONS**
- **COST-EFFICIENT FOR LOW DENSITY GATEWAYS**
- **FIELD-PROVEN, HIGH VOICE QUALITY**
- **OPEN, SCALABLE ARCHITECTURE, COMPATIBLE WITH ASTERIS**
- **SIMULTANEOUS SUPPORT FOR PRI, CAS, AND SS7 SIGNALING, ALONG WITH SIP AND H.323**
- **SS7 SIGNALING, CALL ROUTING, CALL TRANSLATION, AND IP TRANSCODING, SUPPORTED IN A SINGLE CHASSIS**
- **ABUNDANT SERVICE FUNCTIONS**
- **ENTIRELY ENCRYPTION**
- **PLUG AND PLAY ADAPTIVE CAPABILITY**
- **SIMPLE AND CONVENIENT MANAGEMENT AND MAINTENANCE**
- **POWERFUL BILLING MANAGEMENT FUNCTION**

TMG6200 Media Trunk Gateway supports maximum 120 channel(4 E1/T1) VoIP call processing in real-time as a small scale media gateway with 1U size, targeting ISP and enterprise market. TMG6200 supports major VoIP call control protocols including SS7, H.323, SIP concurrently on one embedded OS, and maintains high voice quality on any types of conventional IP networks by utilizing new level of QoS.

TMG6200 Media Gateways leverage sophisticated DSP technology, and have set a benchmark for voice quality in TDM and IP telephony, while preserving end-to-end service transparency for voice, fax, modem, and video calls. By combining high-quality bandwidth optimization, reliability, and scalability with open standards-based interfaces, the TMG6200 Media Gateway can enable powerful operational and capital expense saving solutions for both incumbent and alternative service providers. Its compact 1U design, integrated SS7 links termination and CICs, GUI-based management make the TMG6200 an excellent option for VoIP.

KEY BENEFITS

120 channel call processing capability

This IMS-ready, standards-compliant gateway ensure high voice quality on any types of conventional IP networks supporting Telesail's advanced QoS algorithm as well as standard QoS. TMG6200 system matches the density requirements for small locations while meeting enterprises' and service providers' demands. The compact TMG6200 Gateway is extremely scalable and supports multiples of 1, 2, or 4 E1 spans.

High capacity, high performance for enhanced VoIP services

Telesail VoIP gateways have been recognized with their unmatched level of performance and reliability in the IP telephony market. With the years of experience and the know-how at the enterprise and the carrier-class markets, TMG6200 Media Gateway fulfills the clients' demand for high capacity, high performance. Moreover, TMG6200 concurrently supports multi-stack operation of H.323, SIP call control protocols which are well suitable for any commercial VoIP deployment

Cost-Effective Fax, Modem, and Video Services

The highly efficient signal detection and processing techniques of TMG6200 Media Gateways provide unrivaled highest voice, fax, modem, and video call completion rates with the exceptional quality, allowing the operator to curtail expenses while capturing billable minutes.

Specification

Physical

- Interface
 - TMG6201:
 - 1-Port Digital E1/T1 Interface(1xRJ45)
 - TMG6202:
 - 2-Port Digital E1/T1 Interface(2xRJ45)
 - TMG6204:
 - 4-Port Digital E1/T1 Interface(4xRJ45)
- IP: one(1) 10/100 BASE-T (aggregated)
- Console : one(1) RS232, RJ45
- Clock Synchronization: BITS/SETS (GR-1244 Stratum-3 and G.813 compliant),
- Dimensions
 - 1U high, 19 inch wide
 - 43.6mm H x482mm W x 260mm D

Power and Environmental

- Power adapter:
 - DC: -48V input (-36~-72V) ,Single or
 - AC: 100-240VAC,50/60 Hz ,single
- Operating humidity: 10~90%
- Operating temperature: up to 40°C

Capability

- 30 - 120 TDM channels per 1U shelf (scalable from 1 E1 / 1 T1 to 4 E1 / 4 T1)
- 30 - 120 VoIP channels per 1U shelf
- High Definition Voice Codecs
 - G.711, G.723, G.726, G.729a/B, G.728
- Echo Cancellation
 - G.165 and G.168 compliant
- Fax Support
 - T30 Transparent Transmission
 - T.38 G3(Group 3) FAX Relay
 - FAX Bypass(G.711) Mode Support
- DTMF
 - Detection and Generation, RFC 2833
 - H.245 — DTMF package support
- Voice Processing
 - VAD, CNG, Dynamic Jitter Buffer Operation

- Voice over IP Signaling
 - SIP,H.323 Stack Support
 - SIP Proxy server interoperability
- H.323 Gatekeeper interoperability

Signaling Protocol

- ISDN
 - ISDN-PRI Support : ETSI EURO ISDN
 - R2, SS7* Signaling Protocol
- IP Transport
 - RTP/RTCP Transport, IP,TCP, UDP,
 - READIUS

Maintenance

- SNMP v2 over IPSEC,
 - Command Line Interface (CLI)
- All shelf modules are hot swappable, including boards, power supplies
- Auto-provision via FTP/TFTP/HTTP
- Trace package and system log export

Security

- Transport Layer Security (TLS)
- HTTPS (server/client)
- SRTP (RFC3711),SIPS
- Digest authentication using MD5/MD5-sess
- Secure configuration file via AES encryption
- SSH Protocol Version 2 for secure Telnet and SFTP Server transfers
- VLAN (IEEE802.1x)

Order Information

TMG6200 Media Gateway

TMG6201-AC	1U,19-inch chassis,provides one port digital E1/T1 Interface(RJ45),one fast ethernet interfaces 10/100BaseT and single power supply, AC 100-240V
TMG6201 -DC	1U,19-inch chassis,provides one port digital E1/T1 Interface(RJ45),one fast ethernet interfaces 10/100BaseT and single power supply ,DC -48V (-36~-72V)
TMG6202-AC	1U,19-inch chassis,provides two(2) port digital E1/T1 Interface(RJ45),one fast ethernet interfaces 10/100BaseT and single power supply, AC 100-240V
TMG6202-DC	1U,19-inch chassis,provides two(2) port digital E1/T1 Interface(RJ45),one fast ethernet interfaces 10/100BaseT and single power supply ,DC -48V (-36~-72V)
TMG6204-AC	1U,19-inch chassis,provides four(4) port digital E1/T1 Interface(RJ45),one fast ethernet interfaces 10/100BaseT and single power supply, AC 100-240V
TMG6204-DC	1U,19-inch chassis,provides four(4) port digital E1/T1 Interface(RJ45),one fast ethernet interfaces 10/100BaseT and single power supply, DC -48V (-36~-72V)

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About Telesail Technology Co., Ltd

Telesail Technology is professional in IP-based, end-to-end networking solutions and international service and support. The company sells its broadband, wireless,transmission solutions to operators in both emerging and established telecommunications markets around the world. Telesail enables its customers to rapidly deploy revenue-generating access services using their existing infrastructure, while providing a migration path to cost-efficient, end-to-end IP networks.

For more information about Telesail, visit the company's Web site at <http://www.telesail.com>.