Tmedia™ TMG3200-RJ

VoIP / media gateway data sheet

Ordering information

Part #	*Description*
TMG3200-RJ-8	8 x T1/E1
TMG3200-RJ-9	9 x T1/E1
TMG3200-RJ-10	10 x T1/E1
TMG3200-RJ-11	11 x T1/E1
TMG3200-RJ-12	12 x T1/E1
TMG3200-RJ-13	13 x T1/E1
TMG3200-RJ-14	14 x T1/E1
TMG3200-RJ-15	15 x T1/E1
TMG3200-RJ-16	16 x T1/E1

Each configuration is available in redundant AC or DC power.

PRODUCT DESCRIPTION

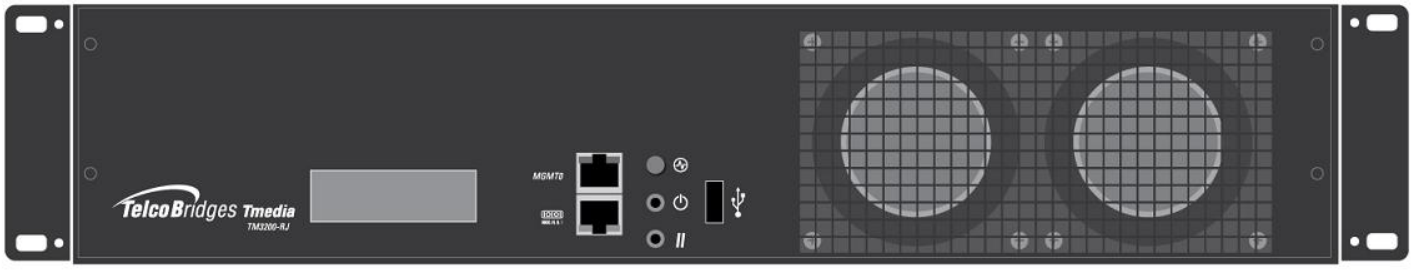
The TelcoBridges **Tmedia TMG3200** is our mid-level VoIP gateway.

Recognised for its high-capacity and high-performance, the TMG3200-RJ is an 8 to 16 T1/E1 VoIP gateway that offers high-density in a single box (2U) solution.

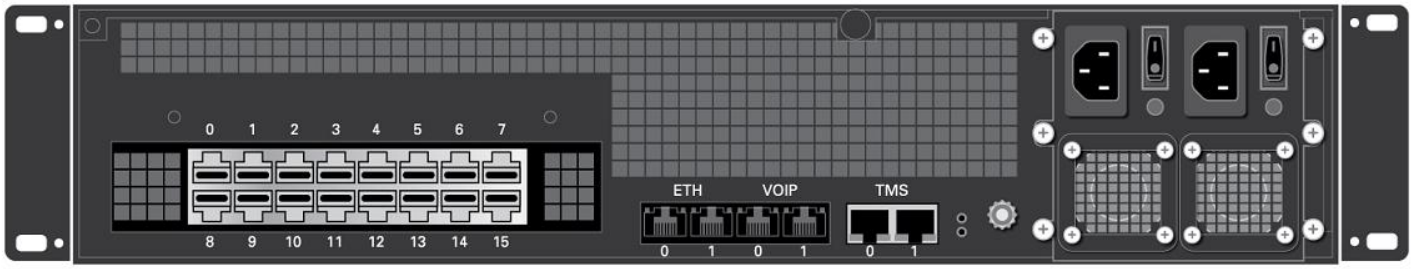
Characteristics of the TMG3200-RJ:

- ✓ 2U VoIP gateway
- ✓ 256 to 512 VoIP channels
- ✓ 8 to 16 T1/E1s
- ✓ Software upgradeable by single T1/E1 and 32 VoIP channel increment
- ✓ Single or redundant AC or DC power supplies

ILLUSTRATIONS



Tmedia TMG3200-RJ, 2U VoIP / media gateway **front view**



Tmedia TMG3200-RJ, **rear view AC** *(DC also available)*

Tmedia TMG3200-RJ VoIP / media gateway data sheet

Capacity and voice processing
256 to 512 VoIP channels (software upgrade)

PSTN interfaces
8 to 16 T1/E1 (software upgrade)
Independently configurable per port
RJ48C connectors on rear of unit

VoIP interfaces
Dual 100/1000Base-T
RJ45 connectors on rear of unit

Vocoding
Universal codecs: G.711, G.723.1, G.726, G.729ab, T.38 V.17, clear mode (RFC 4040)
Other codecs: G.722.2 (AMR-WB), G.728, G.729eg, iLBC, AMR, EVRC, GSM FR/EFR

Fax/Modem/Data
T.38 fax relay (V.17 and V.34)
Automatic G.711 fallback
Modem and data pass-through

DTMF relay
RFC 2833, SIP INFO Method, In-band

Echo cancellation
G.168 echo cancellation
128 ms echo tail on all channels simultaneously

Voice processing
Dynamic and programmable jitter buffer (20 to 200 ms)
Voice activity detection (VAD)
Comfort noise generation (CNG)

Management interfaces
1 RJ45 serial port with RS-232C adapter
Dual 100/1000Base-T for OAMP
Supports virtual IP

Signalling (Simultaneous signalling support)
SIP
Supported RFCs: 2327, 2976*, 3261, 3262, 3263, 3264*, 3311*, 3323*, 3325*, 3398, 3515, 3578*, 3764, 3891, 4028, 3581, 3665*, 3666 (*: partial compliance)

SIGTRAN
M2PA, M2UA, M3UA, IUA
SS7 termination and/or relay supported

SS7
Up to 64 x MTP2 links (56, 64, n x 56/64 kbps, HSL)
Multiple redundant MTP2 links
Up to 64 MTP3 originating point codes and linksets
ISUP variants: ITU 92, ITU 97, ANSI 88, ANSI 92, ANSI 95, Q.767, Telcordia 97, ETSIv2, ETSIv3, China, Singapore, UK

ISDN PRI
Q.931 ISDN PRI: NI-2, 4ESS, 5ESS, DMS-100, DMS-250, Euro ISDN ETSI NET5 (France, Germany, UK, China, Hong Kong, Korea), NTT (Japan), Australia

CAS
MFC R2 (standard ITU, Brazil, Mexico)
Customizable protocol script files

TMG-CONTROL
Standalone call control
Any to any call routing (TDM-VoIP, TDM-TDM, VoIP-VoIP with transcoding)
Call routing based on: trunk group, calling/called numbers, nature of address, ASR, time of day, load-based, cost-based, TO:, FROM: Request URI, redirect numbers, and other parameters
NPA-NXX routing (100K+ table entries, Excel or CVS file upload)
Route retries, calling/called digit manipulation, customizable call cause code mapping, call transfer (REFER, AT&T TR 50075)

H.248 (MEGACO) call control
ITU-T H.248 versions 1 and 2
UDP, SCTP, IPSec transport
DTMF and fax detection
DTMF, call progress tone generation, COT generation
Call quality and inactivity alerts
H.248 control port redundancy (supports virtual IP)

Session management and billing
SIP peer availability polling
RTP inactivity monitoring, RTCP
CDR generation (RADIUS and text file)

OAMP+T
Operation & Administration
Web-based system status and operations
SNMP V2, V3 GET, TRAPs and alarms

Maintenance
Web-based interface for maintenance
Automated system upgrade
System backup, restore and copy

Provisioning
Web-based interface for configuration
Dynamic activation
Dynamic configuration changes

Troubleshooting
Per-call tracing (history and/or live)
Signalling capture tools
SSH command-line interface

Electrical characteristics
Power input
90 to 260 VAC, 47 to 63 Hz, -40 to -60 VDC
Redundant power supply option with dual power inputs
Maximum 138W power consumption

Physical characteristics (*Dimensions & Weight)*
2U, 3.5”(88.9mm) H x 17.4” (442mm) W x 16” (406mm) D
20lbs (9.1kg)

Regulatory compliance (UL/CSA 60950, CSA C22.2)
EMC : FCC Part 15:2009, Subpart B, CE Mark (EN55022:2006, Class A, EM60950, EN61000, ETS 300 386)

Environmental
Operating temperature: 0 to +55 °C, 95% re. hum. non-condensing
Storage temperature: -10 to +75 °C, 95% rel. hum. non-condensing
Designed to meet NEBS Level 3, RoHS compliant