



### Ordering information

Part #	Description
TMG3200-DS3-1	1 x DS3
TMG3200-DS3-2	2 x DS3
TMG3200-DS3-3	3 x DS3

Each configuration is available in redundant AC or DC power.

## PRODUCT DESCRIPTION

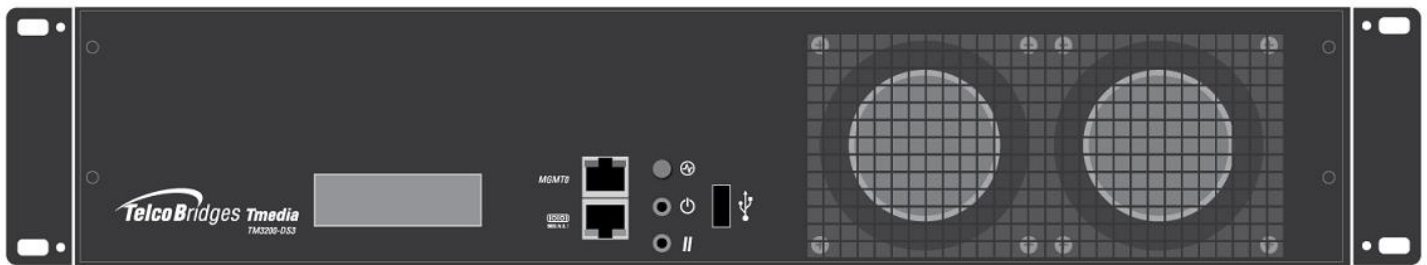
The TelcoBridges **Tmedia TMG3200** is our mid-level VoIP gateway.

Recognised for its high-capacity and high-performance, the TMG3200-DS3 is a 1 to 3 DS3 VoIP gateway that offers high-density in a single box (2U) solution.

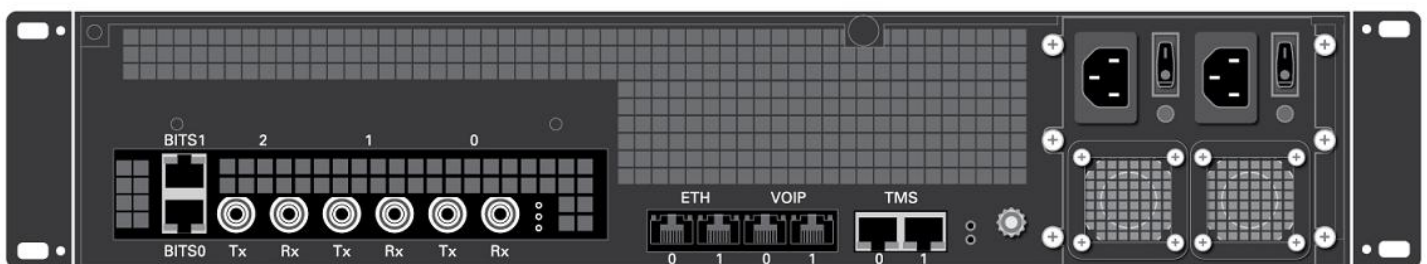
### Characteristics of the TMG3200-DS3:

- ✓ 2U VoIP gateway
- ✓ 672 to 2016 VoIP channels
- ✓ 1 to 3 DS3s
- ✓ Simple field upgrade by 1 DS3 and 672 VoIP channel increment
- ✓ Redundant AC or DC power supplies

## ILLUSTRATIONS



Tmedia TMG3200-DS3, 2U VoIP / media gateway **front view**



Tmedia TMG3200-DS3, rear view AC (DC also available)

### Capacity and voice processing

672 to 2,016 VoIP channels (simple field upgrade)

#### PSTN interfaces

1 to 3 DS3 (simple field upgrade)

BNC connectors on rear of unit

DualRJ48C for BITS or T1/E1 for signalling

#### 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 (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

### 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