PRODUCT DESCRIPTION

The TelcoBridges **Tmedia TMG800** is our entry level VoIP gateway.

Software upgradeable from 1 to 8 T1/E1s, the TMG800 is the most cost effective, one box (1U) VoIP gateway solution currently available on the market.

Characteristics of the TMG800:
- ✓ 1U VoIP gateway
- ✓ 32 to 256 VoIP channels
- ✓ 1 to 8 T1/E1s
- ✓ Software upgradeable by single T1/E1 and 32 VoIP channel increment
- ✓ Single or redundant AC or DC power supplies

.

Ordering information

Part #	Description
TMG800-1	1 x T1/E1
TMG800-2	2 x T1/E1
TMG800-3	3 x T1/E1
TMG800-4	4 x T1/E1
TMG800-5	5 x T1/E1
TMG800-6	6 x T1/E1
TMG800-7	7 x T1/E1
TMG800-8	8 x T1/E1

Each configuration is available in either single or redundant AC or DC power.

ILLUSTRATIONS

Tmedia TMG800, 1U VoIP / media gateway **front view**

Tmedia TMG800, 1U VoIP / media gateway **rear view AC**

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

PSTN interfaces
1 to 8 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
Single 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, Brazil

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 45W power consumption

Physical characteristics (*Dimensions & Weight*)
1U, 19" rack mount, 1.75" (44.5mm) H x 17.4" (442mm) W x 11" (279mm) D
10lbs (4.54kg)

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

PulseSupply
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