

Ttrans™

TMGIP3200

186 to 265 VoIP Transcoding Gateway



The TelcoBridges Ttrans™ TMGIP is our mid-level VoIP transcoding gateway.

Recognized for its high-capacity and high-performance, the TMGIP is a 530 to 2121 simultaneous G.711 to complex codec VoIP transcoding sessions gateway that offers the industry's highest density in a single box (2U) solution.

Product Characteristics:

- ✓ up to 2121 sessions of G.711 <-> G.726,
- ✓ up to 1697 sessions of G.711 <-> G.729,
- ✓ up to 1483 sessions of G.711 <-> G.723,
- ✓ up to 1113 sessions of G.723 <-> G.729,
- ✓ 530 to 2121 simultaneous G.711 to complex codec VoIP transcoding sessions,
- ✓ Simple field upgrade with TMGIP3200-UPG,
- ✓ Redundant AC or DC power supplies,
- ✓ 2U VoIP gateway.

Ordering information

Part #	Transcoding Sessions		(1 session = 2 channels)	
	G.711 to G.726	G.711 to G.729	G.711 to G.723	G.723 to G.729
TMGIP3200-4	530	424	370	278
TMGIP3200-8	1061	849	742	557
TMGIP3200-12	1591	1273	1113	835
TMGIP3200-16	2121	1697	1483	1113
TMGIP3200-UPG	+~530	+~424	+~370	+~278

Each configuration is available in redundant AC or DC power.

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Capacity and Voice Processing

1060 to 4242 complex VoIP transcoding channels
(simple field upgrade)

VoIP interfaces

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

Vocoding

Standard codec: G.711 (A-Law and μ -Law)
Complex codecs: G.723.1, G.726, G.729ab
Other codecs: G.722.2 (AMR-WB), AMR, G.728,
G.729eg, iLBC, clear mode (RFC 4040)

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

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

Signaling

SIP

Supported RFCs: 2327, 2833, 2976, 3204, 3261,
3262, 3263, 3264, 3311, 3323, 3325, 3326, 3372,
3389, 3398, 3515, 3551, 3555, 3578, 3581, 3665,
3666, 3764, 3891, 4028, 4694, 5806
SIP-I/SIP-T

TMG-CONTROL

Standalone Call Control

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 CSV
file upload)
Route Retries
Call transfer (REFER)

H.248 (MEGACO) Call Control

ITU-T H.248 versions 1 and 2
UDP, SCTP, IPSec transport
DTMF and fax detection
DTMF, announcements and call progress tone
generation
Call quality and inactivity alerts

Session management and billing

SIP peer availability polling
RTP inactivity monitoring
CDR generation (RADIUS and text file)

OAMP+T (Web-based Interface)

Operation & Administration

Status, configuration and management GUI
Configuration change audit logging
Access and user management
SNMP V2, V3 GET, TRAPs and alarms

Maintenance

Automated system upgrade
System backup, restore and copy
Extensive system status display
Multiple software version archive

Provisioning

Dynamic configuration changes
Configuration validation
Multiple configuration archive

Troubleshooting (TB Analytics)

Call Trace
Test Call
TB Sigtrace – Live Signaling Capture
System Snapshot

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, 19" rack mount, 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% rel. hum. non-condensing
Storage temperature: -10 to +75 °C, 95% rel. hum. non-condensing
Designed to meet NEBS Level 3, RoHS compliant