



# TMGIP800 VoIP Transcoding Gateway - Up to 530 transcoding sessions



The TelcoBridges *T*trans<sup>™</sup> TMGIP800 is our entry-level VoIP transcoding gateway.

Recognized for its high-capacity and high-performance, the TMGIP800 is a 203 to 530 simultaneous G.711 to complex codec VoIP transcoding sessions gateway that offers the industry's highest density in a single box (1U) solution.

#### **Product Characteristics:**

- ✓ Up to 530 sessions of G.726 <-> G.711
- ✓ Up to 424 sessions of G.729A <-> G.711
- ✓ Up to 371 sessions of G.723 <-> G.711
- ✓ Up to 326 sessions of EFR <-> G.711
- ✓ Up to 288 sessions of AMR-NB <-> G.711
- ✓ Up to 278 sessions of G.723 <-> G.729
- ✓ Up to 203 sessions of AMR-WB <-> G.711
- ✓ Up to 203 sessions of G.722 <-> G.711
- √ 203 to 530 simultaneous G.711 codec VoIP transcoding sessions
- ✓ Hot-swap redundant power supply (AC or DC)
- √ 1U VoIP transcoding gateway

# Ttrans™ TMGIP800 Data Sheet

Pulse Supply 909 Ridgebrook Road Sparks, MD 21152 USA

Tel: +1.410.583.1701

sales@pulsesupply.com www.pulsesupply.com





Trans TMGIP800 1U VoIP transcoding gateway, front and rear view (dual AC power input shown)





# **Capacity and Voice Processing**

#### VoIP interfaces

Up to 6 Ethernet ports 100/1000Base-T RJ45 connectors on rear of unit Up to 16 different IP addresses Ethernet port bonding and 802.1q VLAN support

#### Vocoding

203 to 530 VoIP transcoding sessions Universal codecs: G.711, G.723.1, G.726, G.729ab, T.38 V.17, clear mode (RFC 4040)

Other codecs: G.722, G.722.2 (AMR-WB), G.728, G.729eg, iLBC, AMR, EVRC, GSM FR/EFR, QCELP, T.38 V.34

#### Fax/modem/data

T.38 fax relay (V.17 and V.34) Automatic G.711 fallback Modem and data passthrough, NSE, VBD support Clear mode (RFC 4040)

#### DTMF relay

RFC 2833/4733, SIP INFO method, in-band

#### Echo cancellation

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

#### Voice processing

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

#### Voice recording and announcement playback

Up to 512 channels (using optional IVR mezzanine) Also available using existing VoIP channels

# **High Availability & Redundancy**

Power supply redundancy
IP port redundancy
Self-recovery software
Configuration database redundancy
Seamless software upgrade
Fault tolerant software

## **Signaling**

Simultaneously supports any combination or all of the following signaling protocols:

#### 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, 4733, 5806

SIP-I/SIP-T

Extensive SIP header manipulation

## **Tctrl** (Call Control)

#### Embedded call control

Call routing based on: trunk group, calling/called numbers (with digit manipulation) and/or various other protocol information/headers.

Customizable routing including priority-based, load-balancing, black listing, call limiting, route retries, etc.

Customizable call cause code mapping

Programmable call routing

Access and manipulation of call

RADIUS authentication and authorization (supports multiple RADIUS servers)

SIP-based local number portability and CNAM lookup

#### H.248 (MEGACO) call control

ITU-T H.248 versions 1 and 2 UDP, SCTP, IPSec transport DTMF and fax detection Call progress, DTMF and COT tone 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/or csv files) Integrated lawful intercept (ETSI ES 201 671 v.2.1.1)





#### OAMP+T

### Operations & Administration

Provisioning, management and status GUI CLI and configuration file machine-to-machine interface (RESTful)

Configuration change audit logging Access, user and privilege management SNMP V2, V3 GET, TRAPs (alarms) Extensive SNMP call statistics MIBs

#### Management

2 Ethernet ports 100/1000Base-T
1 USB Type B serial port
1 RJ45 RS232 serial port
GUI-based and CLI system upgrade
GUI-based configuration copy, backup and restore
Storage for multiple software versions
Storage for multiple configuration files
Extensive system status display

#### **Provisioning**

Non-service affecting configuration changes
Offline configuration validation
Multiple configuration files archive
Northbound API (RESTful) for automated provisioning

#### Network Analytics (*TB* Analytics)

Live call trace with protocol information and ladder diagrams

Live test call with media playback and recording TB Sigtrace – Protocol signaling capture into pcap files Media call recording (scriptable for calling and called numbers)

#### **Maintenance**

Replaceable fan filters

## **Electrical Characteristics**

90 to 260 VAC, 47 to 63 Hz or -36 to -72 VDC Hot-swap redundant power supply (AC or DC) Maximum 70W power consumption

## **Regulatory Compliance**

#### Safety

CAN.CSA C22.2 EN 60950-1:2005 EN 60950-1:2006

#### **EMC**

FCC Part 15:2013, Subpart B, CE Mark (EN55022:2010, Class A, EN61000, ETSI EN 300 386)

HS Code 85176200

# **Dimensions & Weight**

1U, 19" rackmount 1.75" (44.5 mm)H x 16.9" (429 mm)W x 16" (406 mm)D 14 lbs (6.4 kg)

#### **Environmental**

Operating temperature:

0 to +70 °C, 95% rel. hum. non-condensing Storage temperature:

-10 to +85 °C, 95% rel. hum. non-condensing Designed to meet NEBS Level 3 RoHS compliant



Tel: +1.410.583.1701 sales@pulsesupply.com www.pulsesupply.com

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