



The **TelcoBridges™ Tdev TMP800** is an extensible multi-service development platform that meets the needs of service providers and solution developers looking to cost-effectively deploy new value-added services. The TMP800 provides capacity of up to 8 T1/E1/J1 interfaces, up to 256 universal VoIP channels, and up to 512 IVR channels. As service uptake increases, the capabilities of the 1U form factor TMP800 can be extended with expansion cards for VoIP and software license upgrades for TDM and IVR.

Whether sitting at the network edge or positioned in the core network, the TMP800 provides media handling functionality, including SS7 signaling, allowing it to bridge TDM and IP networks and intermediate between various wireless, TDM and IP voice networks. The TMP800 builds on those capabilities with an advanced application platform for delivering enhanced network-wide services such as unified communications, ring-back tones, and prepaid/postpaid services.

Leveraging the TelcoBridges Toolpack™ development software and well-known programming languages running on an external application server, the TMP800 provides the ability to rapidly develop and deploy applications that tie together real-time communications from the network with stored external data sources to provide unique subscriber-specific services.

FEATURES & BENEFITS

Powerful: By tying together real-time communications from the network with stored external data sources, the TMP800 provides an advanced application platform for delivering unique subscriber-specific services, such as unified communications, ring-back tones, and prepaid/postpaid calling.

Field-Upgradeable: Through VoIP plug-in hardware additions as well as the ability to expand from 1 to 8 T1/E1/J1 ports and/or from 32 to 512 IVR channels through software license upgrades.

Flexibility: A network agnostic platform, the TMP800 supports multiple 'any-to-any' call routing as well as support for all major wireless, TDM and IP voice protocols.

For more information on how the Tdev TMP800 can help transform your offerings, visit www.telcobridges.pulsewan.com



TMG800 SPECIFICATIONS

NETWORK INTERFACES

Telephony

1 to 8 T1/E1/J1 TDM ports (software upgradeable)

Capacity

TDM: 24 to 256 channels

VoIP: 24 to 256 universal ports (G.711, G.723.1, G.726, G.729ab, T.38), many other codecs at different channel densities

IVR: 24 to 512 channels

WAN IP

Dual 100/1000 Base-T for VoIP traffic

LAN

100/1000 Base-T for control by host application

MEDIA PROCESSING

PCM A-law to μ -law encoding conversion

Universal Codecs G.711, G723.1, G.726, G.729ab, T.38

Other Wireline

Codecs G.728, G729eg

Internet Codec iLBC

Wireless Codecs AMR, GSM-FR/GSM-EFR, EVRC/QCELP

Independent dynamic codec selection per channel

DTMF Relay RFC2833, SIP INFO method, in-band

Echo Cancellation G.168 – 128ms tail length on all channels simultaneously

Fax Support T.38 fax relay, Group 3 Fax/modem
G.711 fax fallback

DEVELOPMENT ENVIRONMENT

Toolpack Application Development Tools

> Pre-developed C++ classes (call bridging, call routing, IVR, embedded web-based GUI, voicemail, ODBC database access/RADIUS for CDRs, etc.)

> Onboard Linux host based on Fedora core 8

MANAGEMENT & CONTROL

TelcoBridges Element Management System

> Live configuration and software upgrades via HTTP

> Monitoring via HTTP

> RADIUS accounting CDR support

REGULATORY COMPLIANCE

EMC FCC Part 15, EN55022, EN61000, ENV50204

NEBS Level 3 Designed to meet

Safety CE, UL60950, CSA C22.2 No.60950-1-03

SIGNALING

PSTN

SS7 (20+ variants)MTP2, MTP3, SS7/C7, SCCP*, TCAP and ISUP

SIGTRAN (currently in development)

Up to 8 SS7 links, up to 256 CICs, HSL, 1+1 SS7, single or multiple point codes

ISDN PRI (14+ variants), National ISDN-2, Euro ISDN, DMS100, DMS250, 4ESS, 5ESS, JATE/Japan INS-NET1500

IP

SIP RFC 3261 User Agent, SIP Authentication

QUALITY OF SERVICE (VoIP)

Dynamic jitter buffer (adaptive and fixed), packet loss concealment, Tos, Silence Suppression; Denial of Service (DoS) protection for VoIP media

IVR FEATURES

DSP-based, 24 to 512 channels via software license;

> Voice prompt playing

> Conferencing; up to 132 active participants

> DTMF detection, generation, suppression

> AGC (Automatic Gain Control), Voice Activity Detection (VAD), Comfort Noise Generation (CNG)

MANAGEMENT INTERFACES

1 RJ45F serial console port with RS-232C adapter

1 100/1000base-T management interface

HARDWARE SPECIFICATIONS

Physical Interfaces

PSTN: 1 to 8 T1/E1/J1 via RJ45

IP: One 100/1000 Base-T Ethernet VoIP port

OAM & Control: 100/1000 Base-T Ethernet port

CPU: On-board Linux host to run custom applications

Freescale 400MHz CPU, 512 MB RAM, 4GB Flash disk

Dimensions

> 1.75" H (44,5 mm) x 17.4" W (442 mm) x 11" D (279 mm)

Weight: 20 lb (9.1 kg)

AC Power: 90 to 260 Volts AC, 47/63 Hz

DC Power: -40 to -60 Volts DC

Power Consumption: 45 W fully loaded

Operating temperature range: 0 to +55 °C, 95% rel. hum. non-condensing

Storage temperature range: -10 to +75 °C, 95% rel. hum. non-condensing

* Available Q3 2009