

PRODUCT DESCRIPTION

The TelcoBridges **Tdev TMP6400** is a high-density telecom development platform that meets the needs of service providers looking to expand their value-added services (VAS), providing a cost-effective foundation for introducing new offerings while rapidly scaling to meet the needs of a growing subscriber base.

Whether deployed on a wireline, wireless or VoIP network, the TMP6400 delivers seamless voice interoperability across TDM and IP networks. In addition, the TMP6400 builds on those capabilities with an advanced application platform for delivering ring-back tones, unified communications, pre-paid/post-paid calling, conferencing, fax-over-IP (T.38), voicemail, and other enhanced services to subscribers irrespective of access protocol or device. Leveraging TelcoBridges' Toolpack software toolkit, the TMP6400 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

- Carrier grade
- Flexibility
- High-density
- High availability

For more information with regard to the Tdev TMP6400, visit the TelcoBridges corporate web site www.telcobridges.com or the TBWiki docs.telcobridges.com.

Ordering information

Part #	Description
TMP6400	Dev. Platform Base
TMP6400-CTRL	Server
TMP6400-TMS	MediaSwitch

TelcoBridges TMP6400 is a highly customisable telecom development platform. You can customise your TMP6400 based on the following features:

- Type of **Power** (redundant AC or DC)
- **SS7** (# links from 1 to 64)
- **SIGTRAN** (None, Relay or Termination)
- **IVR** (128 to 2048 channels)
- **TDM Interface** (RJ, TE, DS3, OC3/STM1)
- **Control options** (Internal or none)
- **VoIP** (none, or from 1 to 4 mezzanines)
- **SIP** (Signalling Stack or none)
- **Toolpack** (software or none)
- **ISDN** (ISDN variants or none)

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Tdev TMP6400, front view, 2U Telecom Development Platform (available in redundant AC or DC)

Tdev TMP6400 Telecom development platform / data sheet

Capacity and voice processing

256 to 2,048 VoIP channels (simple field upgrade)

PSTN interfaces

8 to 64 T1/E1 (simple field upgrade) or

1 to 3 DS3 (simple field upgrade) or

1 OC3/STM1

Independently configurable per port

SCSI connectors to RJ48C patch panel

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)

Play/record capabilities

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

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CAS

MFC R2 (standard ITU, Brazil, Mexico)

Customizable protocol script files

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

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 147W 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