TelcoBridges

The **TelcoB**ridges™ *T*dev TMS1600 media switch is a dedicated, high-availability switch that can combine with up to 16 units of **TelcoB**ridges' *T*dev TMP6400 multi-service application platform to support up to 32,768 non-blocking universal voice ports across 1024 T1/E1/J1, 48 DS-3, or 16 STM-1 interfaces. When used with the TMP6400™, the TMS1600 media switch supports carrier-grade, high-capacity bridging between TDM and IP networks, transcoding between various wireline, wireless, and Internet codecs and the delivery of hosted IP-PBX, Fax over IP, SIP trunking, voicemail, and other advanced services.

In conjunction with **TelcoB**ridges' Toolpack™ application development environment, the TMS1600 media switch enables load sharing and redundancy across TMP6400 devices and application servers to meet the growing needs of providers of enhanced network-wide services such as unified communications, ring-back tones, and pre-paid/post-paid service.

FEATURES & BENEFITS

Carrier grade: The TMS1600 media switch is designed to meet the need for five 9s reliability that service providers and their customers demand. The TMS1600 enables physical and logical redundancy across the switch and application fabric.

Flexibility: A network-agnostic platform, the TMS1600 supports multiple 'any-to-any' switching for up to 32,768 non-blocking voice ports.

Scalability: Supports up to 16 TMP6400 platform devices representing 1024 T1/E1/J1, 48 DS-3, or 16 STM-1 interfaces. The TMS1600 media switch features self-discovery and handling of protected optimal routes between any TMP6400 device in the cluster. This automation allows the platform to transparently scale the system without changes at the application level, regardless of how many units are present (i.e. one big single fault-tolerant system).

High availability: When paired together in a dual star architecture, two TMS1600 devices enable redundancy and automatic fault-tolerance for communications units across the cluster. Combined with the *T*oolpack fault-tolerant software architecture, the TMS1600 media switch supports high-availability for both SS7 signalling and core call routing, transcoding and application delivery functions.

> *T*dev **TMS1600**

The **TelcoB**ridges TMS1600 media switch is the switching device of choice for service providers and solution developers looking to implement high-capacity network convergence or advanced services delivery using the *T*dev series of multi-service application platforms. For more information, visit www.telcobridges.com.

TMS1600 SPECIFICATIONS

LAN PORTS
> Dual Redundant 100/1000 Base-T for control

SWITCH PORTS
> 16 RJ45
> Each interface supports 2048 channels
> Interconnects up to 16 TMP6400 devices

MANAGEMENT PORTS
> 1 RJ45 serial console port with RS-232C adapter
> 1 100/1000 Base-T management interface

SYNCHRONIZATION
> BITS or any input interface

HARDWARE SPECIFICATIONS
Dimensions
1U with dual AC or DC power supplies
> 1.75" H (44,5 mm) x 17.4" W (442 mm) x 16" D (406 mm)

Weight
17 lbs (7.71 kg)

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

DC Power
-40 to -60 Volts DC

Power Consumption
72 W fully loaded

Environment
Operating temperature range: 0 to +55 °C, 95% rel. hum. non-condensing
Storage temperature range: -10 to +75 °C, 95% rel. hum. non-condensing

MANAGEMENT & CONTROL
TelcoBridges Element Management System
> Live configuration and software upgrades via HTTP
Monitoring via HTTP

DEVELOPMENT ENVIRONMENT
Transparently supported by TelcoBridges' development tools
> Development-free use and integration

Toolpack Application Development Tool
> Pre-developed C++ classes (call bridging, IVR, web GUI, voicemail, database access, etc.)
> Linux, Intel/SPARC Solaris, Windows

ExpresSCE+ Service Creation Environment
> GUI-based application development
> Windows server operating system

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