16-Port T1/E1 T-DAC Digital Cross Connect
Model 2616RC

The Patton Model 2616RC is a software-programmable, non-blocking digital cross connect with 16 channelized T1/E1 ports and flexible any-to-any DS0 mapping.

Clock Synchronization
Any port can serve as master or secondary clock source for the entire ForeFront chassis

Nx64 Speeds from 64 to 2048 kbps
Each port is independently selectable for any required bandwidth including clear channel (32 time slots)

Independent T1/E1 Port Mapping
Ports can be configured independently, supporting T1 & E1 ports on the same card

Port Fallback
A fallback port can be configured for any port to ensure non-stop switching of data

Fault-Tolerant Processing
Each module independently sustains switching with its own built-in processor for non-stop operation

SNMP/HTTP Management
SNMP/HTTP manageable from anywhere in the world including attached CPE units

Complete Alarm Facilities
Configurable alarm reporting with SNMP Traps, front panel LEDs, 3-contact relay, and syslog

Patton's Model 2616RC TDM-Digital Access Concentrator (T-DAC) card provides affordable, high density access concentration and cross connection of DS0 time slots for most network applications. Patton combines 16 software-programmable T1/E1 ports that have integrated CSU/DSUs with a fully non-blocking, any-to-any DS0 switching fabric for implementing powerful multi-module systems in Patton's ForeFront Access Platforms.

Each T1/E1 port of the Model 2616RC supports user-selectable data rates from 64 to 2048 kbps. With a built-in cross connect, each data channel or channel group can be multiplexed onto any other T1/E1 port—even ports on other T-DACS (such as the Patton Model 3196 or 3096) in the same chassis.

Support for HDB3 and AMI line coding on E1 (G.703/G.704) ports and AMI and B8ZS line coding on T1 ports, makes the 2616RC one of the most flexible cross connects available.

Every 2616RC T-DAC has its own processing capability, ensuring continuous operation and manageability even in the presence of multiple network outages. Support for primary and secondary system clock sources guarantee continuous synchronization with the other modules as well as the TDM network. To add to fault tolerance and reliability, fallback ports are configurable for any port to ensure that if the attached circuit fails, channels being carried on the failed circuit can be re-routed to another port. An integrated SNMP/HTTP-based management system allows for easy configuration via any SNMP-enabled NMS or via a web browser.

Visit www.patton.com for more information.

Rear access card provides any-to-any DS0 connectivity

Interoperable with other ForeFront front resource cards
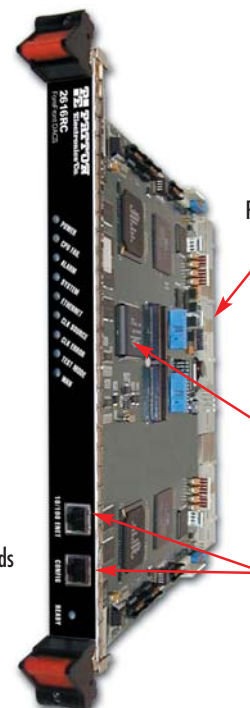
Model 2616RC T-DAC
Provides 16 T1/E1 links at rates from 64 to 2048 kbps.

RISC processor ensures non-stop operation and manageability even during multiple network outages

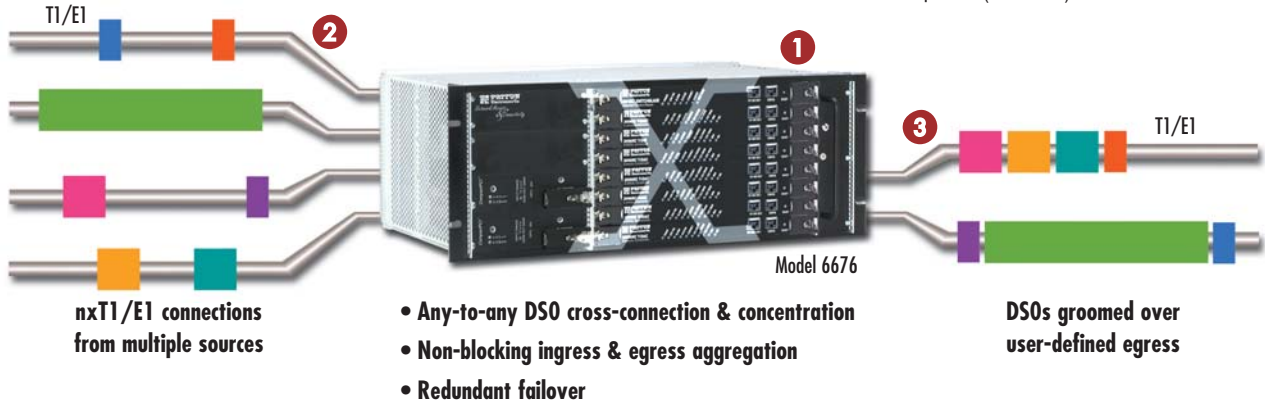10/100 Ethernet and craft ports easily accessible from front panel

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PATTON®

Using the flexible 2616RC's DS0 switching matrix, Service Providers can easily consolidate, manage, and provision up to 96 T1/E1 links from a single 6476 (4U) chassis. Uplink access costs are significantly reduced by grooming and aggregating DS0 traffic from many partially used T1/E1 lines into selected outgoing T1/E1 or STM-1 links.

Here is how it works:

1 Each 2616RC comes with 16 T1/E1 ports; you select which timeslots connect to downstream or upstream lines.

2 Based on customer requirements, assign nx64 kbps timeslots to downstream T1/E1 links, i.e 256 kbps (4 DS0s), 512 kbps (8 DS0s), 1024 kbps (16 DS0s), etc.

3 Use the 2616RC GUI to map DS0s from downstream to upstream lines. For example:

- 4 DS0s from port 1
- 8 DS0s from port 2
- 16 DS0s from port 3
- 3 DS0s from port 4
- All mapped to upstream E1 port 5 (31 DS0s).

T1/E1

2

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Model 6676

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T1/E1

nxT1/E1 connections from multiple sources

- **Any-to-any DS0 cross-connection & concentration**
- **Non-blocking ingress & egress aggregation**
- **Redundant failover**

DSOs groomed over user-defined egress

WAN Ports	16 configurable WAN ports: T1 (AMI/B8ZS line coding) or E1 (HDB3/AMI line coding), G.703, G.704, G.723	**High Speed Midplane**	Redundant, high speed, packet switched bus (PSB) and TDM bus supporting 4096 DS0s
Ethernet Ports	10/100BaseT (RJ-45 connector); auto-negotiating; half or full duplex operation for management	**Compliance**	Safety: UL/CSA per UL1950 Canadian per CS-03. RTTE Directive 99/5/EC, Environment FCC Part 15,CE Mark, CTR12, CTR13, FCC Part 68
WAN Clocking	Internal or Network (from T1/E1 WAN port)		
Front Panel Indicators	Indicators LEDs for power, CPU, system, Ethernet, External clock, Test mode, and WAN ports frame and error status	**Environment**	Operating temperature: 0–40°C (32–104 °F) Humidity: 5–90% non-condensing
Management Services	HTTP, SNMP, Telnet Ethernet, RS-232 Console Port, SYS-LOG Client, Software upgrade via FTP	**Dimensions**	Front blade: 0.75 H x 10.5 W x 6.3 D in. (1.9 H x 26.7 W x 16.0 D cm)
Alarm Reporting	Configurable alarms; Remote SNMP Traps; Front Panel LEDs		Rear blade: 0.75 H x 10.5 W x 3.15 D in.
System Clocking	Master and slave clocking sources are user-selectable and can be derived from other system cards in the chassis		(1.9 H x 26.7 W x 8.0 D cm)

07MD2616RC-DS3