16-Port G.SHDSL TDM Digital Access Concentrator
Model 3096RC

The 3096RC T-DAC connects 16 G.SHDSL users and supports nx64 kbps access to 2.3 Mbps. Offering high density with standards-based interoperability, the 3096RC delivers access for the next generation.

Up to 16 Ports per ForeFront Card
Get high density per card and lower your cost per port. Simply scale with more cards.

nx64 kbps Speeds to 2.3-Mbps
Get speGet speed and distance of up to 30,000 feet (9.4 km) with nx64 kbps (n=1..36) on each port.

Flexible WAN Egress
Your choice of 4/8/12/16 T1/E1 module, or use the STM-1 uplink for up to 63 E1s over fiber or copper.

Built-in TimeSlot DACS
Connect any-to-any mapping with its powerful built-in grooming capabilities.

Complete Alarm Facilities
Configurable alarm reporting via remote SNMP traps, front panel LEDs, 3-contact relay, and NMS.

SNMP/HTTP Network Management
Configure the Model 3096RC and the remote CPE modems from any location in the world.

DSL delivers the reach-and-range, but the infrastructures delivering those services have typically lacked integration, often requiring a rack full of specialized equipment. Now, Patton has combined G.SHDSL ports, DACS, and WAN functions into a powerful system operating on Patton's ForeFront Access Platform.

The Model 3096RC TDM-Digital Access Concentrator, or *T-DAC,* links 8, 12, or 16 G.SHDSL circuits to multiple WAN uplink modules and offers completely flexible any-to-any DS0 grooming. Each 2.3-Mbps port offers user-selectable nx64 (*n*=1..36) data rates. With its built-in cross-connect, each data channel, or channel group, can be multiplexed onto any uplink or DSL port—even to ports on other 3096RC blades in

the same chassis. The entire system is easily manageable through an integrated SNMP/HTTP-based NMS.

Use the T-DAC in any Patton 2U, 4U, or 6U Forefront Access System and scale-up density while reducing costs! Fully redundant power and integrated cooling enable these lightweight chassis to grow while accepting new technologies.

Harness the explosive growth of DSL with a tightly integrated, cost-effective solution to aggregate high-speed traffic while gaining flexibility and protecting your investment. Choose the 3096RC for your next network rollout.
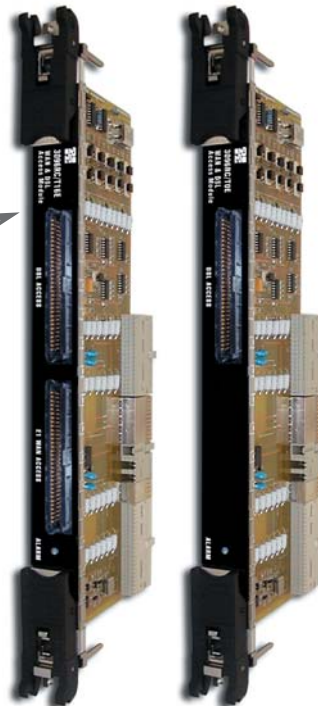
Visit www.patton.com for more information.

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ENHANCED WARRANTY

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3096RCT/4E
3096RCT/8E
3096RCT/12E
3096RCT/16E
T1/E1 rear access cards provide any-to-any DS0 connectivity to the Patton Access Node. Additionally, it provides 4, 8, 12, or 16 E1 WAN egress ports.

Model 3096RC T-DAC
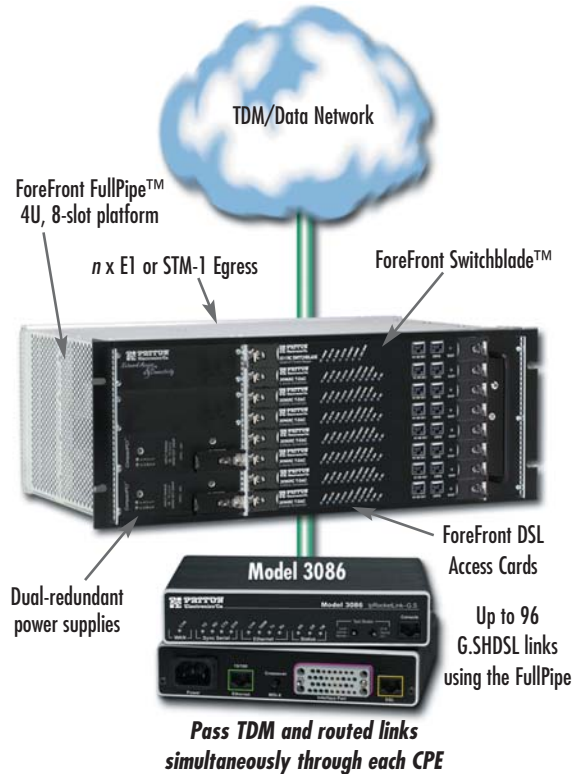Provides up to 16 G.SHDSL links at rates of nx64 kbps to 2.3 Mbps.

3096RCT/0E
T1/E1 rear access card provides any-to-any DS0 connectivity to the Patton Access Node.

PATTON

ForeFront G.SHDSL System Configurations

The ForeFront FullPipe—configured with 3096RC T-DACs—provides up to 96 G.SHDSL links in a 4U chassis. E1 or STM-1 interface options make data network integration a snap. Combined with Patton's 3086 CPE, it provides the complete solution.

TDM/Data Network

ForeFront FullPipe™ 4U, 8-slot platform

n x E1 or STM-1 Egress

ForeFront Switchblade™

Dual-redundant power supplies

ForeFront DSL Access Cards

Model 3086

Up to 96 G.SHDSL links using the FullPipe

Pass TDM and routed links simultaneously through each CPE

ForeFront HalfPipe™
2U-high, 4-slot cPCI-based access node

ForeFront FullPipe™
4U-high, 8-slot cPCI-based access node

ForeFront Xtreme™
6U-high, 17-slot cPCI-based access node

Specifications

G.SHDSL	ITU-T G.991.2 G.SHDSL Annex A and Annex B. G.994.1 G.hs nx64 kbps data rates up to 2.3 Mbps (n-1..36) over 2 wires Full duplex, symmetrical TC-PAM encoding	**Management Services**	HTTP, SNMP, TELNET Ethernet, RS-232 Console Port, SYSLOG Client, Remote Software Upgrade via FTP
G.SHDSL Distance	30,000 feet (9.4 km) at 192 kbps, 16,500 feet (5 km) at 2.3 Mbps	**Alarm Reporting**	Configurable alarms; Remote SNMP Traps; Front Panel LEDs; 3-Contact Relay (3-pin terminal block)
G.SHDSL connection	Up to 16 ports presented on a 50-pin Telco connector	**Compliance**	Safety: UL/CSA per UL1950 (METS) Canadian cMET and CS-03. EMC Directive 89/336/EEC, Low-Voltage Directive 73/23/EEC (EN 60950), FCC Part 15, CE Mark, CTR12, CTR13 FCC Part 68.
Rear Modules	Uplink module options include 4, 8, 12, or 16 T1/E1 ports		
Ethernet Port	Single 10/100Base-T (RJ-45 connector)	**Environment**	Operating temperature: 14 to 140°F (-10 to 60°C); Humidity: 5 to 90%, non-condensing
G.SHDSL Modems	Patton 3201, 3086, and other standards-based G.SHDSL modems	**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)
WAN Clocking	Internal, Network (from T1/E1 WAN port) or system chassis		Rear blade: 0.75 H x 10.5 W x 3.15 D in. (1.9 H x 26.7 W x 8.0 D cm)
G.SHDSL Clocking	Provides clocking to the remote NTUs/Modems		
Front Panel Indicators	LEDs for power, CPU, system, Ethernet, clock source, alarms, test mode, DSL, and WAN		

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