16-Port iDSL T-DAC TDM Concentrator
Model 3196RC

The Patton Model 3196RC iDSL T-DAC connects 16 users and supports data rates of 64, 128, and 144 kbps. This high density offering provides affordable access concentration to speed-up first-mile networks.

Up to 16 iDSL ports per card
Get high density per card and lower your cost per port. Easily scale by adding more cards

Speeds of 64, 128, & 144 kbps
Each port is independently selectable for any bandwidth. Distances to 16.4 km/10.1 miles on 0.9 mm/19 gauge copper wire

Standards-based line coding
Uses 2B1Q per ETSI ETR-080 and ANSI T1.601 standards

Built-in timeslot DACS
Perform any-to-any DS0 mapping between any DSL and WAN port in a ForeFront chassis

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 messages

Patton's Model 3196RC iDSL TDM-Digital Access Concentrator, or iDSL T-DAC provides affordable first-mile access concentration for virtually any low speed network application.

Leverage low cost iDSL technology to offer the right service at the right price. Patton has combined iDSL ports, DACS, and WAN up-links and functions into a powerful system operating on Patton's ForeFront Access Platform.

The Model 3196RC, links up to 16 iDSL circuits to multiple WAN modules and offers complete any-to-any DS0 grooming. Each iDSL port offers user selectable data rates of 64, 128, and 144 kbps. With a built in cross connect, each data channel or channel group can be multiplexed onto any up-link or other DSL port—even ports on other 3196RC or 3096RC T-DACS in the same chassis. An integrated SNMP/HTTP-based management system allows for easy configuration via any SNMP enabled NMS.
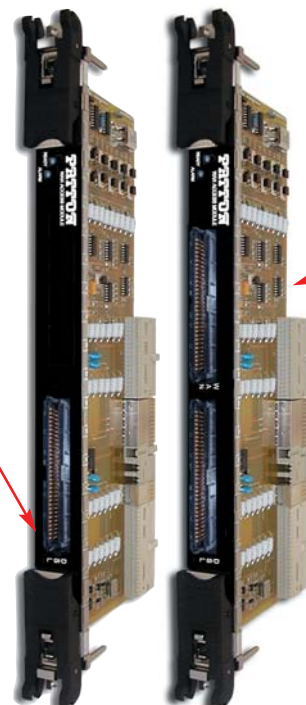
Each 3196RC T-DAC has its own processing capability built in, offering continuous operation even in the presence of multiple network outages. Use the T-DAC in any Patton 2U, 4U or 6U ForeFront Access System and affordably scale up density to network growth requirements.

Visit www.patton.com for more information.

Model 3196RC T-DAC
Provides up to 16 iDSL links at rates of up to 64, 128, and 144 kbps.

Rear access cards provide any-to-any DS0 connectivity. Additionally, it provides 4, 8, 12, or 16 E1 WAN egress ports.

T1/E1 rear access card provides any-to-any DS0 connectivity within the Patton ForeFront AIS. Interoperable with other ForeFront front resource cards
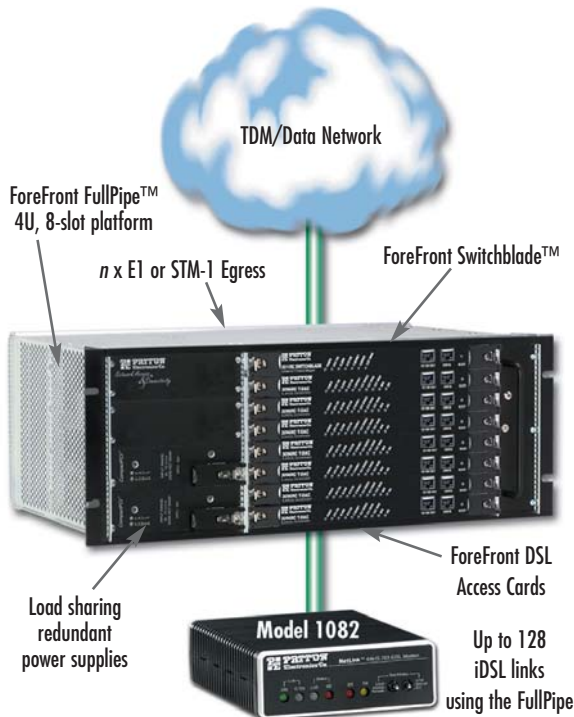
PATTON®

The ForeFront FullPipe—configured with 3196RC iDSL T-DACs—provides up to 128 iDSL links in a 4U chassis. E1 or STM-1 interface options make data network integration a snap. Combined with Patton's 1082 CPE, it provides the complete solution.

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

TDM/Data Network

ForeFront FullPipe™ 4U, 8-slot platform

n x E1 or STM-1 Egress

ForeFront Switchblade™

ForeFront DSL Access Cards

Load sharing redundant power supplies

Model 1082

Up to 128 iDSL links using the FullPipe

Specifications

iDSL	2B1Q modulation per European Telecommunications Standards Institute (ETSI) as ETR-080 and American National Standards Institute (ANSI) as T1.601	**Front Panel Indicators**	LEDs for power, CPU, system, Ethernet, clock source, alarms, test mode, DSL, and transition module WAN ports
iDSL Distance	16.4 km/10.1 miles using 19-gauge (AWG)/0.9-mm copper wire	**Management Services**	HTTP, SNMP, Telnet Ethernet, RS-232 Console Port, syslog client, remote software upgrades via TFTP
iDSL Connections	Up to 16 ports presented on a 50-pin RJ-21x Telco connector	**Alarm Reporting**	Configurable alarms, remote SNMP traps, front panel LEDs, 3-Contact Relay (Form-C)
Rear Module	Up-link options include 4, 8, 12, or 16 T1/E1 ports	**Compliance**	Safety: UL 60950, IEC 60950 (CB Scheme); EMI: FCC Part 15 Class 'A'; Telecom: TIA/EIA/IS-968 (for T1/E1 interfaces); CE
Ethernet Management	Single 10/100Base-T (RJ-45 connector); simultaneous dual redundant operation over backplane	**Environment**	Operating temperature: 14 to 140°F (-10 to 60°C); Humidity: 5 to 90%, non-condensing
iDSL Modems	Use Patton Model 1082 and 1092A iDSL modems	**Dimensions**	Front Module: 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) or via the system back-plane from any other card		Rear Module: 0.75 H x 10.5 W x 3.15 D in. (1.9 H x 26.7 W x 8.0 D cm)
iDSL Clocking	Provides clocking to the remote NTUs/Modems		