

# Total Access 5000 Cabinet Retrofit Kit

## for Nortel® OPAC

With the demand for higher-bandwidth services growing at a phenomenal rate, it is more important than ever to be able to leverage existing infrastructure in the delivery of new services. Time to market is crucial and network redesign or new cabinet deployment is simply not an option. The solution is cabinet revitalization. The ADTRAN® Total Access® 5000 Multiservice Access and Aggregation Platform is the best solution for revitalizing existing cabinet infrastructure to deploy higher-bandwidth, next-generation services easily and cost effectively.

### Why Retrofit?

Cost is the major barrier to the deployment of new services. The average total cost of placing a new cabinet could approach \$50,000, while the average retrofit costs less than one-third of the price of a new installation. Thousands of small line count cabinets, originally deployed for Plain Old Telephone Service (POTS), are not equipped to handle the thermal and power requirements for the deployment of high-bandwidth services. However, retrofitting provides a complete solution for next-generation deployment, while eliminating the costs associated with new cabinet fees, cabinet installation, powering, and right-of-way negotiation. Retrofitting minimizes capital expenditures and speeds service deployment. When compared to a new installation, retrofitting allows you to upgrade three times as many cabinet sites with the same amount of money.

### Total Access 5000

ADTRAN's Total Access 5000 is the perfect retrofit solution for your growing network. This carrier-class Multiservice Access and Aggregation Platform was designed with retrofit applications in mind. Its small formfactor makes it ideally suited for cabinet revitalizations. With a pure Ethernet core, the Total Access 5000 supports both legacy and emerging service interfaces over copper and fiber, easily scaling to support even the most bandwidth-intensive applications, like Internet Protocol (IP) TV and video. It provides a clear migration path for traditional services like voice through its flexible network uplink options, including support for both TDM and Voice over IP switches. In addition to supporting both traditional and next-generation access interfaces, the Total Access 5000 has an Ethernet core providing a scalable and cost-optimized aggregation point in the network, with interfaces ranging from DS1 to Gigabit Ethernet. The Total Access 5000 is one of the most flexible platforms on the market today, not only allowing you to deliver DSL and POTS, but a variety of next-generation services for future growth.



## Kit Contents

### One Total Access 5000, Assemblies Including:

- 1187001L1 Total Access 5000 chassis
- 1187051L1 SMIO-3 Switch module backplane
- 1187080L1 fan module assembly
- 1187410L1 backplane modules for RJ-21 cables, 2-slot, (quantity = nine for eighteen cables)
- 1187411L1 backplane modules for RJ-21 cables, 3-slot, (quantity = one for three cables)

### Cabinet Cooling Kit

- Six 240cfm fans, finger guards, and mounting hardware
- Fan controller contains an 85° F thermostat to activate the fans, a bypass switch for testing fan functionality, and provides form C alarm relay closure

### Valere Power® System, Including:

- 23-inch Valere power system provides three rectifier slots
- BC-500 system controller module
- Three 20A rectifier modules (quantity = three for N+1 protection)
- Two 30A breaker outputs to Total Access 5000
- 8-GMT fuse positions for cooling solution and auxiliary equipment
- Two 50A breakers for battery strings connected to LVD

- Requires two 30A 110 VAC circuit to support 20A rectifiers or two 30A 220 VAC circuit to support 40A rectifiers

### Fiber Termination Equipment Including:

- Cabinet-Mounted Interconnect Center (C-MIC)
- One-rack space mounting
- Front access available
- Terminates and/or splices cables
- Two connector panels, twelve connectors, SC, Single Mode

### Miscellaneous

- Adaptable mounting brackets for installation of the Total Access 5000 and Valere shelves
- Twenty-one 10-ft male RJ-21 to MS2 extension cables, to allow use of existing primary protection
- Four SC to LC, 1M long, single mode fiber optic cables
- 170° F high temperature thermostat
- Battery cable kit provides Anderson disconnect for two virtual battery strings
- 50-ft thermal probe for battery monitoring
- System schematic for universal mounting and cooling kit and MOP detailing the installation process



Smart Solutions for a  
Connected World.





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### Quality and Reliability

ADTRAN® Cabinet Retrofit Kits are fully engineered solutions. All components have been lab tested for thermals, air flow and mechanical stress. Complete installation training services are available should you choose to perform the installation. Experienced installation is also available at competitive rates. Like all ADTRAN products, this kit is backed by ADTRAN's best-in-class customer service, warranty and telephone technical support. ADTRAN's retrofit kits allow you to upgrade your network in a clear and logical manner. Using the Total Access® 5000 Cabinet Retrofit Kit will allow you to provide a common structure for all of your retrofit solutions. This provides a number of benefits including: allows standard network design and installation practices to be established for your entire network; eases problem identification and long-term maintenance; establishes reference times and costs for installations; eases network upgrade planning; and enables a full engineering review prior to implementation.

## Ordering Information

Equipment	Part #
Total Access 5000 Retrofit Kit for Nortel OPAC	4192RKNOPCL1

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