

Alcatel-Lucent 1665 Data Multiplexer Explore (DMX*plore*) for Service Providers

Deliver reliable, high-capacity voice and data services directly to customers.
Affordably extend optical networks to the customer premises.



Benefits

- Delivers low-cost access to the network edge
- Supports network and facility protection
- Offers big features in a small footprint
- Provides full functionality right out of the box
- Helps lower start-up costs
- Allows simplified installation



Delivers Low-Cost Access to the Network Edge

The Alcatel-Lucent 1665 DMX*pl*ore is an ultra-compact SONET multiplexer designed for fiber to the business and fiber to the curb applications. Its small size and low power consumption make it a sensible option for delivering low density DS-1, DS-3, and 10/100 Mbps Fast Ethernet private line connections to small- and medium-sized customers.

Low cost and compact design can facilitate new deployment options. The Alcatel-Lucent 1665 DMX*pl*ore system is designed to extend the SONET network to small and medium enterprise customers, at a price point that helps profitable service generation from day one. Supported by a common operations environment in conjunction with the 1665 DMX family of products, element management is simplified and interoperability is assured.

The Alcatel-Lucent 1665 DMX*pl*ore can be mounted in a cabinet, on a wall, or even in a rack. It is environmentally hardened and can function in a variety of places including extreme temperature environments.

Applications include:

- Voice and TDM private line
- Fiber-to-the curb
- USPR rings or 1+1 optical extensions to the CPE



Supports Network and Facility Protection

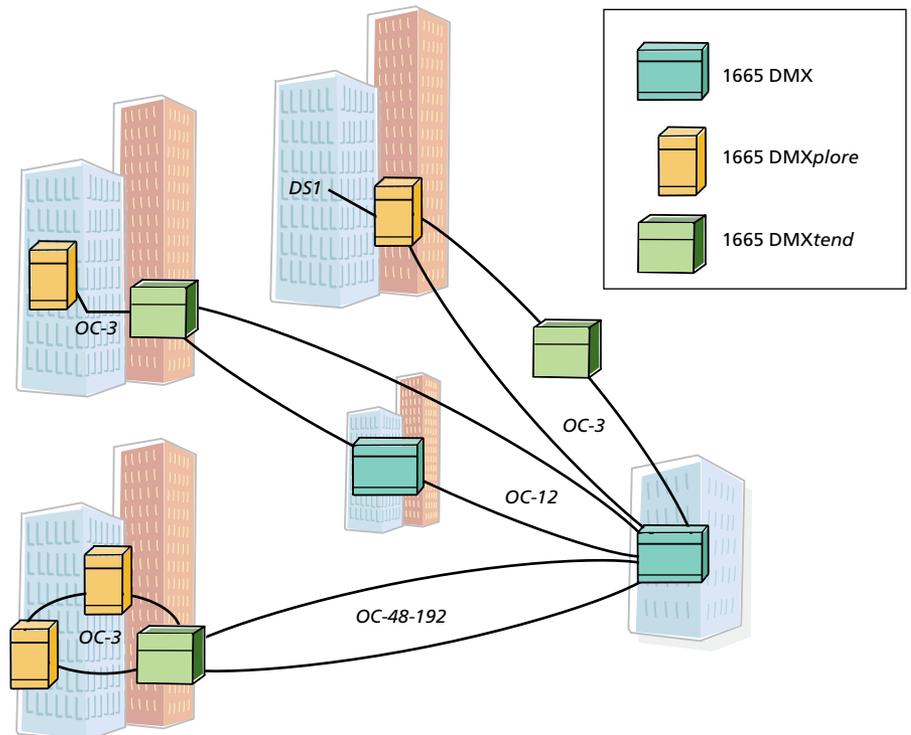


This product offers both SONET and facility protection, allowing the continuation of service in the event of a failure. It offers a variety of configurations to deliver carrier-class services to customers, including:

- Up to 16 fully protected DS-1s and 2 DS-3s
- Four 10/100 Mbps Fast Ethernet private lines
- OC-3 or OC-12 high speed interface
- 1+1 or UPSR protection

Circuit pack redundancy in the main 1 and main 2 slots offers facility protection, traffic restoration, and circuit pack replacement without loss of service. The 1665 DMX*pl*ore system can be upgraded in-service to support additional DS-1 and DS-3 interfaces. Plus, the shelf can be equipped to serve diverse network applications and a variety of current and evolving network operations needs. These capabilities extend carrier-class reliability all the way to the network edge.

Figure 1. The 1665 DMX*pl*ore offers SONET-quality customer handoff for traditional TDM applications, providing low-cost access to small and medium businesses.)



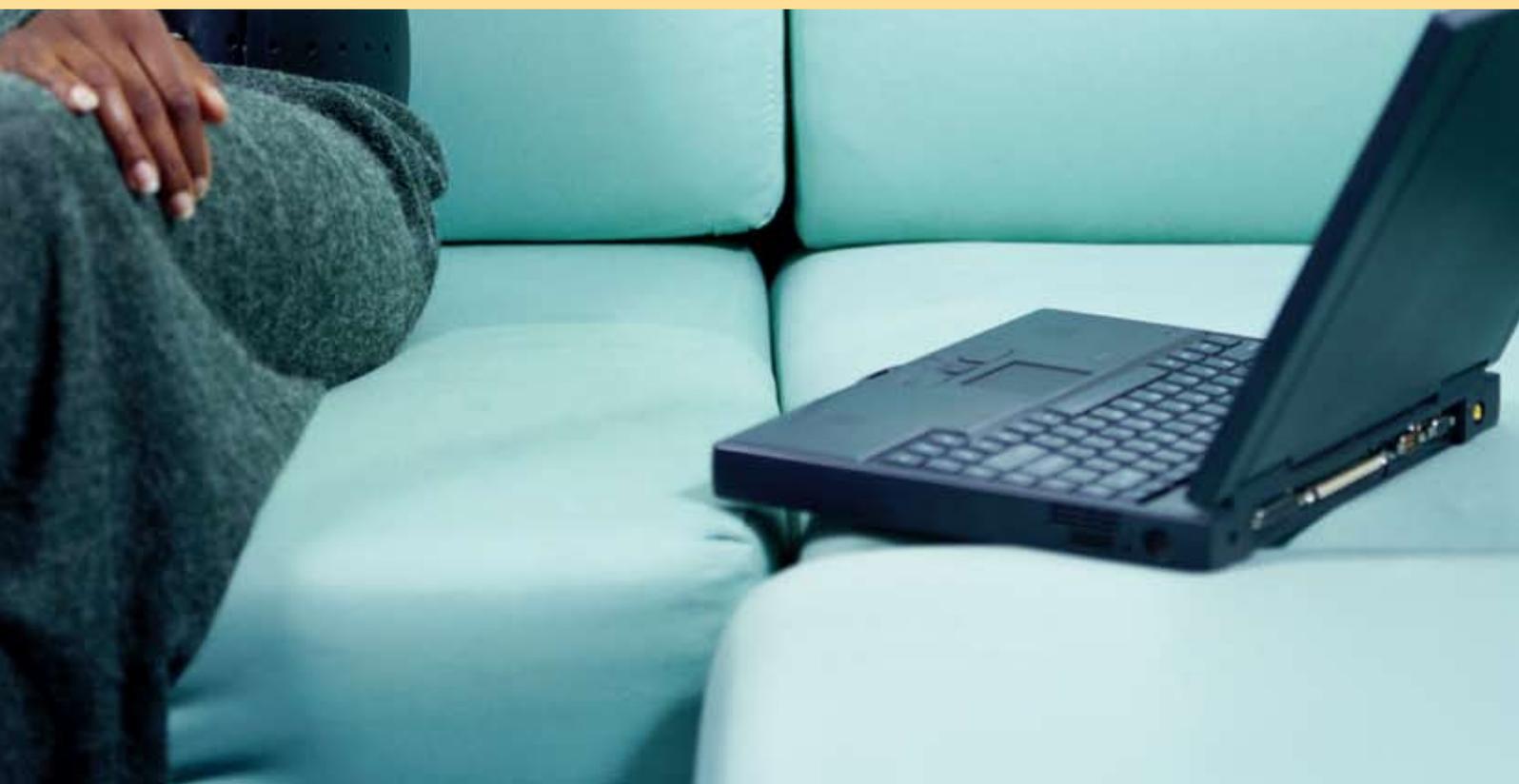


Offers Big Features in a Small Footprint



The Alcatel-Lucent 1665 DMX*pl*ore offers many powerful features. The modestly sized unit transmits voice and data over a single SONET line, which avoids costs associated with more complex network schemes. It offers a graceful evolution from Fiber Reach multiplexers, and is compatible with other SONET compliant equipment for interoperability with an existing network. Its design also includes a data service slot that supports four 10/100 Mbps Fast Ethernet private lines.

Though compact, it offers the same level of protection as many larger next-generation network elements, and is environmentally hardened for Outside Plant (OSP) applications. This combination is well-suited to a variety of deployment options — whether it's to support the customer at the network edge, or to deliver or utilize high-quality, cutting edge, next-generation services in areas with low end-user density.



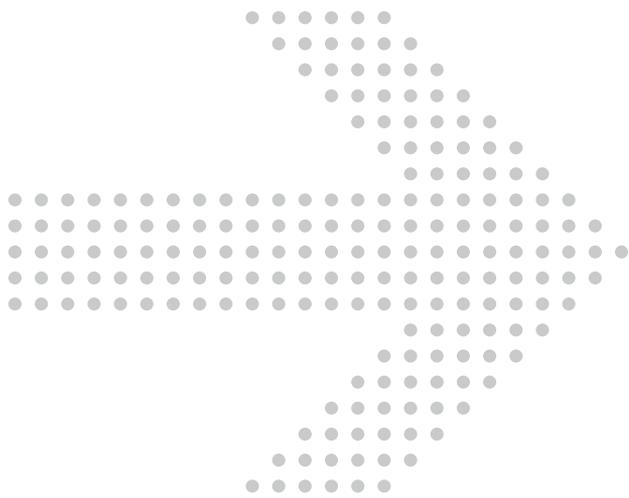
Provides Full Functionality Right out of the Box

The modular design of the system provides a variety of configurations that simplify operations and installation. Using the fixed option, a pre-provisioned set of cross-connections are fully functional right out of the box. This enables fast and inexpensive turn-up using very little craft labor or expertise, while providing the high level of service and protection required by many onsite metro applications.

With the variable option, the cross-connects can be provisioned on-site to meet customer-specific service needs. Either way, the Alcatel-Lucent 1665 DMX*pl*ore can help support business needs.

Figure 2. The 1665 DMX*pl*ore presents high-density, fully protected SONET in a small footprint.





Helps Lower Start-up Costs

UPSR ring capability offered by the Alcatel-Lucent 1665 DMX*pl*ore system allows the stacking of multiple nodes at one location. This helps enable a low cost start-up by providing the ability to grow incrementally at one location.

Allows simplified installation

The centralized operation of this product is supported by a full set of Single-Ended Operations (SEO), and control and maintenance features. Integrated test capabilities and default provisioning help simplify installation, and basic maintenance tasks can be performed using faceplate LED displays and controls. Its Craft Interface Terminal (CIT) or remote OS can provide access to sophisticated maintenance, provisioning and reporting features.

The Alcatel-Lucent 1665 DMX*pl*ore can help cost-effectively deliver voice and private line services to customer premises where end-user density would not warrant a larger multiplexer. It offers an affordable way of extending high-quality services to small- and medium-sized businesses, thus opening a whole new market and revenue possibilities for exploration.



1665 DMX*pl*ore for Service Providers

Features & Benefits

- Ethernet capabilities support next-generation services, using technologies such as GFP and VCAT.
- Circuit pack redundancy allows traffic restoration and circuit pack replacement without loss of service.
- Fixed or variable cross-connect mapping options facilitate installation and turn-up.
- UPSR ring capability allows multiple protected nodes on a ring.
- Full SONET functionality in a small footprint.
- OSI seven-layer protocol stack supports up to one thousand network elements.
- Craft Interface Terminal (CIT) provides access to sophisticated maintenance, provisioning and reporting features.

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