



Alcatel OmniStack 4024

Integrated Routing & Powerful Standards-based VLANs

The OmniStack 4024 offers advanced network services at the edge of the network. With 24 10/100 auto-sensing ports and support for Fast and Gigabit Ethernet uplinks, distributed network services and security, and policy-based and authenticated VLANs, the 4024 offers superior value-added service for an enterprise network.

OmniStack 4000 is designed for:

- Workgroup and edge applications – Ethernet/Fast Ethernet workstations
- Edge applications with Fast Ethernet workstations and backbone links
- Workgroup switching with Gigabit uplinks
- Interoperability with the Alcatel family of switching and routing products

The OmniStack 4000 models:

- OS-4024C 24-10/100BaseTX ports with two fixed 100BaseTX uplink ports
- OS-4024F 24-10/100BaseTX ports with two fixed 100BaseFX uplink ports
- OS-4024CF 24-10/100BaseTX ports with one fixed 100BaseTX uplink port and one fixed 100BaseFX uplink port
- OS-4024G 24-10/100BaseTX ports with two fixed 1000BaseFX (Gigabit Ethernet) uplink ports

Features and Benefits

10/100 Capability: Each RJ45 port provides auto-negotiation of 10 or 100 Mbps Ethernet. This assures users of a simple migration from 10 Mbps Ethernet to 100 Mbps Ethernet within the same switch and eliminating further investment as network bandwidth demands increase.

High-speed switching fabric: Equipped with Alcatel's powerful ASICs to provide a high-speed switching fabric. This powerful architecture ensures 10/100BaseT switching and high-speed uplink support without contention.

Automated moves, adds, and changes: Supports Alcatel's policy-based VLANs, which automatically places devices in the correct VLAN based on the devices' parameters. These powerful VLANs reduce administrative costs associated with network moves, adds, and changes.

Integrated routing: Includes support for IP and IPX routing. This allows inter -subnet and -VLAN communication without the need or cost of an external router.

Powerful traffic management: Support for dynamic buffer allocation and data priority levels help limit data loss even during heavy bursty traffic loads.

Network management: Each unit ships standard with SNMP and RMON. Additionally, a suite of advance network management software is available. The powerful management offering helps monitor and troubleshoot the network for maximum network usage and efficiency.

The OmniStack 4024

The OmniStack 4024 is a cost-effective fully featured workgroup switch. A comprehensive feature set and uplinks means the versatility of the 4024 allows you to build a network infrastructure ready for data and voice integration. In addition, it is fully compatible with Alcatel's switching and routing product families.

Network security

The OmniStack 4024 supports standards-based virtual LANs (VLAN) such as port-based VLANs with 802.1Q tagging, the industry standard for VLAN interoperability. VLANs allow the user to partition traffic switched by the OmniStack 4024. To cross a VLAN boundary, frames must be routed. This is typically done at the core of the network (OmniCore 5000). The OmniCore, Alcatel's high performance routing switch, provides wire-speed routing with ACLs. The combination of VLANs at the edge and wire speed routing with ACLs at the core offers a robust enterprise-wide network security architecture.

Adaptive networking

As networks evolve to converged data and voice networks, technical infrastructures must scale to support rapid upgrades. 10/100Mbps ports can also be aggregated to create a high-speed link to a server or high-speed uplink. Up to four full duplex 10/100 ports can be aggregated gradually to create an 800 Mbps pipe.



Simplified management

The OmniStack 4024 offers a very attractive price per port. However, network hardware procurement costs are only a fraction of the overall cost of ownership. In addition, the total cost of ownership (TCO) includes maintenance and personnel training. To facilitate TCO controls OmniStack 4024 has:

- Industry standard SNMP traps and RMON probes
- Support for the Alcatel Network Management System and compatibility with leading products like HP OpenView.

Specifications

Public standards: IEEE 802.3; 100BaseTX

Maximum frame size: 1,518 bytes and 1,522 bytes with IEEE 802.1Q

Serial port: One RS-232, 9-pin "D" connector, configured per IBM AT serial port (DTE)

Data rate switch ports: 10 or 100 Mbps half and full duplex

Data rate uplink ports: 100 or 1,000 Mbps

Port connectors: RJ45 and SC

Redundant power connector: One shielded power connector for redundant power source

Power source: 90-265 VAC, 47-63 Hz, 65W; -48VDC-150W

Heat Generation: 222 BTU/hour

Ambient operating temperature: 32 – 104 °F (0 – 40 °C)

Cable type: UTP (100 ohms), Cat 5 required when running at 100 Mbps), STP (100 ohms)

MAC addresses: 1024

DRAM memory: 16 Mbytes

Flash memory: 8 Mbytes

Dimensions: 1.71" H x 12.187" D x 17.12" W
(4.34 cm H x 31 cm D x 43.5 cm W)

Weight: 8 lbs. (3.6 kg)

10/100BaseT port counts: 24

VLAN types: Physical port, MAC address, layer 3 address, protocol type, multicast address, custom bit mask

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