



## 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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