ALLOY

10/100 NWAY RACKMOUNT SWITCH SERIES

Availability of information is of paramount importance for efficient, successful organisations. The central role that LANs play in most organisations demands high availability of data and applications. Switches are the workhorses for today's modern networks. 10/100Mbps Switches, with their inherent speed and segmentation of the LAN, deliver on both counts, delivering higher network performance, improved client/server response times, and supporting higher density workgroups.

Alloy's Nway 10/100Mbps Rackmount Switch series offers the power of 100Mbps networking, with class-leading price points. Based on the latest ASIC chipset design, our switches provide maximum performance for environments where network traffic is high, and bandwidth is at a premium. With all the core aspects of switch architecture design integrated into one high-performance chip, these switches provide remarkable levels of performance and reliability. Alloy Nway 10/100Mbps Rackmount Switches are ideal platforms for workgroups, departmental switches, server farms, campus networking, and more. *Fast, reliable multi-function switches at 'real world' pricing!*

Alloy NS-16J Rackmount Switch
16x Nway Auto-MDIX 10/100Mbps Ports

Key Features

- 16 and 24 port Nway 10/100Mbps rackmount models (rackmount kit included)
- Non-blocking + non-head-of-line blocking full wire-speed performance. Based on a robust store-and-forward switching fabric.
- Latest 'Switch on a Chip' ASIC design with MAC address tables, packet buffering etc integrated on a high-performance chipset.
- Integrated 'on chip' packet memory functions
- Integrated MAC address look-up tables, self-learning and self-ageing
- All models auto-sense and auto-negotiate 10/100Mbps links
- All models support auto-sensing of MDI/MDI-X connections

- Auto-detection of full and half duplex links on all 10/100Mbps ports
- Up to 100 metres range on Cat 5e UTP
- Extensive front panel diagnostic LED suites
- IEEE 802.3x Flow Control for full duplex operation; Back pressure Flow Control for half duplex operation
- Port Trunking supported on NS-16J. Up to 4 Trunk Groups of 4 ports each: up to 800Mbps per link
- Broadcast Storm protection
- Standards-based integration of Ethernet and Fast Ethernet
- Class-leading price points providing rapid return on investment

Key Features

Alloy NS-24J Rackmount Switch
24x Nway Auto-MDIX 10/100Mbps Ports

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Technical Specifications

	NS-16J	NS-24J
General		
Standards:	100Base-TX IEEE 802.3u 10Base-T IEEE 802.3	→
Network Protocol:	CSMA/CD	→
Topology:	Star	→
Ports:	16x Nway 10/100Mbps	24x Nway 10/100Mbps
Auto MDI/MDI-X:	Yes - all ports	→
Performance		
Transmission Method:	Store-and-forward switching fabric	→
Data Transfer Rate:	Ethernet: 10/20Mbps* Fast Ethernet: 100/200Mbps*	→
Duplex Mode:	Half & full modes, all ports	→
Bus:	Non-blocking 'on chip' bus	→
Filtering/Forwarding Rate:	Fast Ethernet: 148,000 pps Ethernet: 14,880 pps	→
RAM Buffer:	'On Chip' 4MB DRAM packet storage buffer; full line-speed; dynamic buffer management	'On Chip' 768KB per device SRAM packet storage buffer; full line-speed; dynamic buffer management
MAC Address Table:	'On Chip' 8K tables per device; self address learning, forwarding and filtering	Two 4K tables per device; self address learning, forwarding and filtering
Flow Control:	Full duplex: IEEE 802.3x Half duplex: Back Pressure	→
Diagnostics		
LEDs per System: **Per Port:** **Per Port Trunking Group:**	Power Link/Activity, Speed, FDX/Col Status	Power Link/Activity, Speed, FDX/Col N/A
Management		
Port Trunking:	4 groups of 4 ports, enabled by DIP switch. Aggregated bandwidth per group: 800Mbps (max, full duplex)	None
Environmental		
Power Requirement:	Internal universal switching P/supply. 90–240V, 50/60 Hz.	→
Power Consumption:	25 watts maximum	→
Temperature: **Operating:** **Storage:**	0-40 degrees Celsius -20-70 degrees Celsius	→
Humidity: **Operating:** **Storage:**	10%-90% RH 5%-90% RH	10%-85% RH 5%-90% RH
Case/Mounting:	Rackmount (mounting kit supplied)	→
Dimensions**:**	430(W) x 200(D) x45(H) mm	→
Weight:	2.5Kg	2.65Kg
EMI:	C-tick, FCC Class A, CE	→

On-line Specifications available from:
10/100 Rackmount Switch Series: **www.alloy.com.au/products/NS16J.htm**