



## Product information DRAGON MACH4500-80G+8X-L2A

Industrial Ethernet:Backbone Switches:DRAGON MACH4000:Chassis:DRAGON MACH4500-80G+8X-L2A

<https://www.e-catalog.beldensolutions.com:443/link/57078-24455-504081-503772-504853-504089/en/conf/uistate>

<b>Name</b>	DRAGON MACH4500-80G+8X-L2A
	
	Full Gigabit Ethernet Backbone Switch with internal redundant power supply, modular design and advanced Layer 2 HiOS features
<b>Delivery informations</b>	
<b>Availability</b>	available
<b>Product description</b>	
<b>Type</b>	DRAGON MACH4500-80G+8X-L2A
<b>Order No.</b>	942 153-001
<b>Description</b>	Full Gigabit Ethernet Backbone Switch with internal redundant power supply, modular design and advanced Layer 2 HiOS features
<b>Port type and quantity</b>	Ports in total up to 88; Basic unit 8 fixed ports: 8 x 1GE/2.5GE/10GE SFP+ plus 32 x FE/GE TX ports; Modular: 48 x FE/GE TX ports expandable with four media module slots; 12 FE/GE ports per module
<b>Number of fiber ports</b>	Up to 56 fiber ports: 48 x GE/FE plus 8 x 2.5GE/10GE
<b>More Interfaces</b>	
<b>V.24 interface</b>	1 x RJ45 socket
<b>USB interface</b>	1 x to connect auto-configuration adapter ACA22 (USB)
<b>SD-card slot</b>	1 x to connect auto-configuration adapter ACA31 (SD)
<b>Power requirements</b>	
<b>Operating voltage</b>	Built-in power supply - redundant supply 300 W rated power, Input: 100-240 V AC, Output: 56 V DC
<b>Power consumption</b>	200 W
<b>Mechanical construction</b>	
<b>Dimensions (W x H x D)</b>	480 mm x 88 mm x 445 mm
<b>Protection class</b>	IP20
<b>Mounting</b>	19" control cabinet
<b>Software</b>	
<b>Management</b>	Dual Software Image Support, TFTP, SFTP, SCP, LLDP (802.1AB), LLDP-MED, SSHv2, V.24, HTTP, HTTPS, Traps, SNMP v1/v2/v3, Telnet, DNS Client
<b>Diagnostics</b>	Management Address Conflict Detection, MAC Notification, Signal Contact, Device Status Indication, TCPDump, LEDs, Syslog, Persistent Logging on ACA, Email Notification, Port Monitoring with Auto-Disable, Link Flap Detection, Overload Detection, Duplex Mismatch Detection, Link Speed and Duplex Monitoring, RMON (1,2,3,9), Port Mirroring 1:1, Port Mirroring 8:1, Port Mirroring N:1, RSPAN, SFLOW, VLAN Mirroring, Port Mirroring N:2, System Information, Self-Tests on Cold Start, Copper Cable Test, SFP Management, Configuration Check Dialog, Switch Dump, Snapshot Configuration Feature
<b>Configuration</b>	BOOTP/DHCP Client with Auto-Configuration, DHCP Server: per Port, DHCP Server: Pools per VLAN, AutoConfiguration Adapter ACA31 (SD card), AutoConfiguration Adapter ACA21/22 (USB), HiDiscovery, DHCP Relay with Option 82, Command Line Interface (CLI), CLI Scripting, Full-featured MIB Support, Web-based Management, Context-sensitive Help
<b>Security</b>	MAC-based Port Security, Port-based Access Control with 802.1X, Guest/unauthenticated VLAN, Integrated Authentication Server (IAS), RADIUS VLAN Assignment, RADIUS Policy Assignment, Multi-Client Authentication per Port, MAC Authentication Bypass, DHCP Snooping, IP Source Guard, Dynamic ARP Inspection, Denial-of-Service Prevention, LDAP, Ingress MAC-based ACL, Egress MAC-based ACL, Ingress IPv4-based ACL, Egress IPv4-based ACL, Time-based ACL, VLAN-based ACL, Ingress VLAN-based ACL, Egress VLAN-based ACL, ACL Flow-based Limiting, Access to Management restricted by VLAN, Device Security Indication, Audit Trail, CLI Logging, HTTPS Certificate Management, Restricted Management Access, Appropriate Use Banner, Configurable Password Policy, Configurable Number of Login Attempts, SNMP Logging, Multiple Privilege Levels, Local User Management, Remote Authentication via RADIUS, User Account Locking
<b>Redundancy functions</b>	HIPER-Ring (Ring Switch), HIPER-Ring over Link Aggregation, Link Aggregation with LACP, Link Backup, Media Redundancy Protocol (MRP) (IEC62439-2), MRP over Link Aggregation, Redundant Network Coupling, Sub Ring Manager, RSTP 802.1D-2004 (IEC62439-1), MSTP (802.1Q), RSTP Guards
<b>Industrial Profiles</b>	EtherNet/IP Protocol, IEC61850 Protocol (MMS Server, Switch Model), ModbusTCP, PROFINET IO Protocol
<b>Time synchronisation</b>	PTPv2 Transparent Clock two-step, PTPv2 Boundary Clock, Buffered Real Time Clock, SNTP Client, SNTP Server
<b>Miscellaneous</b>	Manual Cable Crossing, Port Power Down
<b>Switching</b>	Independent VLAN Learning, Fast Aging, Static Unicast/Multicast Address Entries, QoS / Port Prioritization (802.1D/p), TOS/DSCP Prioritization, Interface Trust Mode, CoS Queue Management, IP Ingress DiffServ Classification and Policing, IP Egress DiffServ Classification and Policing, Queue-Shaping / Max. Queue Bandwidth, Flow Control (802.3X), Egress Interface Shaping, Ingress Storm Protection, Jumbo Frames, VLAN (802.1Q), Protocol-based VLAN, VLAN Unaware



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Mode, GARP VLAN Registration Protocol (GVRP), Voice VLAN, MAC-based VLAN, IP subnet-based VLAN, GARP Multicast Registration Protocol (GMRP), IGMP Snooping/Querier per VLAN (v1/v2/v3), Unknown Multicast Filtering, Multiple VLAN Registration Protocol (MVRP), Multiple MAC Registration Protocol (MMRP), Multiple Registration Protocol (MRP)

**Ambient conditions**

<b>Operating temperature</b>	0 °C ... 60 °C
<b>Storage/transport temperature</b>	-20 °C ... 70 °C
<b>Relative humidity (non-condensing)</b>	10 % ... 90 %

**Approvals**

<b>Basis Standard</b>	C-Tick, CE, EN61131
<b>Safety of industrial control equipment</b>	cUL 508 / UL 61010-1 and UL 61010-2-201; EN 60950-1
<b>Transportation</b>	NEMA TS2, EN 50121-4

**Scope of delivery and accessories**

<b>Accessories to order separately</b>	Device Replacement and Logging: ACA22-USB EEC - Order No. 942 124-001, ACA31 - Order No. 942 074-001
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