

## Product No: 942 154-003

### HIRSHMANN FULL GIGABIT ETHERNET BACKBONE LAYER-3 SWITCH WITH UP TO 48X GE + 4X 2.5/10 GE PORTS 942154003

#### FEATURES

- Up to 48x GE + 4x 2.5/10 GE ports
- Fan unit installed
- Blind panels for line card and power supply slots included



#### General Information

Brand	HIRSHMANN
Product Type	Backbone Switch
Series	DRAGON MACH4500
Software Configuration	Automatic Configuration Undo (roll-back), Configuration Fingerprint, Text-based Configuration File (XML), 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
Software Diagnostics	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
Software Management	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, OPC-UA Server
Software Miscellaneous	Manual Cable Crossing, Port Power Down

Aggregation, Link Aggregation with LACP, Link Backup, Media Redundancy Protocol (MRP) (IEC 62439-2), MRP over Link Aggregation, Redundant Network Coupling, Sub Ring Manager, RSTP 802.ID-2004 (IEC 62439-1), MSTP (802.1Q), RSTP Guards, VRRP, VRRP Tracking, HiVRRP (VRRP enhancements)

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#### Software Security

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, Password change on first login

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#### Software Switching

Independent VLAN Learning, Fast Aging, Static Unicast/Multicast Address Entries, QoS / Port Prioritization (802.ID/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 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), Layer 2 Loop Protection

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#### Software Time Synchronization

PTPv2 Transparent Clock two-step, PTPv2 Boundary Clock, Buffered Real Time Clock, SNTP

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Client, SNMP Server

### Technical Attributes

Mean Time Between Failure (MTBF)	1 281 583 h
No. of 1GB Ports	48
No. of 2.5GB Ports	4
No. of Ethernet Ports	52
Nominal Power (W)	80
Operating Voltage Range	100 - 240 V AC
Power Consumption (W)	80 (Include SFP Transceivers + 1 PSU + Fan Module)
Rated Maximum Operational Voltage AC (V)	240
Rated Minimum Operational Voltage AC (V)	100
Software	HiOS 09.0.06

### Physical Attributes

Maximum Temperature (°C)	60
Minimum Temperature (°C)	0
Mounting Type	19" Control Cabinet
Operational Temperature Range (°C)	0 - 60
Relative Humidity	10-95 %
Storage Temperature Range (°C)	-40 - 70

### Dimensions

Dimensions (mm)	480W x 88H x 445D
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### Protection & Standards

Degree of Protection	IP20
Standards	C-Tick, CE, EN61131
Standards and Approvals	EN50121-4

### Resources

Product catalogue (Flipbook)	<a href="#">Download from here</a>
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