

OCTOPUS OS24/34

Managed PoE Switches

Hirschmann's OCTOPUS OS24/34 Power over Ethernet (PoE) switches optimize power and reliability while lowering the cost of network design and expansion.



Increase network performance and efficiency with 120 Watt PoE budget



Optimize power distribution to end devices with manual PoE management per port



Ensure reliability in extreme environments with robust, industry-approved design

Key Features

- Power sourcing equipment in accordance with IEEE 802.3at requirements
- Fast and full Gigabit Ethernet 120 Watt PoE power
- Manual PoE management per port
- Electrical or optical Gigabit uplink-ports and Fast Ethernet M12 ports
- IP67/IP65 protection degree rating and metal housing for harsh environments
- Industry-approved for use onboard and along tracks



With 120 Watt PoE, the OCTOPUS OS24/34 devices require less cabling to end devices and ensure the highest performance within harsh, condensed operating spaces.







Industrial engineers can now get twice the Power over Ethernet (PoE) when designing or expanding their networks. The OCTOPUS OS24/34 Managed PoE Switches from Hirschmann are 120 Watt PoE sourcing devices with an extended total power budget, which increases the number of powered network devices connected to the switch.

With internal PoE capability and cabinet-less mounting, the switches require less cabling and are space-saving, economical options for tight, harsh industrial environments, such as onboard or trackside rail settings.

The switches are equipped with various hardware and software features for the best cost efficiency and meet IP65 and IP67 ratings, offering the highest level of flexibility and reliability amidst exposure to shock, vibration, water, dust and extreme temperatures.

Applications

The switches have added PoE+ support for reduced cabling, and their power supplies meet multiple input voltage ranges. The switches offer high-vibration resistance and broad protection to electrostatic discharges. With an IP65 and IP67 rating, the switches meet the requirements of switching and routing functions in waterproof and dust-tight housings for mounting outside of cabinets and operate at temperatures ranging from -40 $^{\circ}$ C to +70 $^{\circ}$ C.



Markets

The OCTOPUS OS24/34 switches are designed for a range of application scenarios in transportation, manufacturing and machine building environments, including onboard networks; information systems in train stations; conveyer systems; and traffic surveillance on highways, bridges and in tunnels.



Enhanced OCTOPUS OS24/34 PoE switches from Hirschmann now include a 120 Watt Power over Ethernet (PoE) option, which provides greater power to more network devices and helps customers keep up with evolving network requirements.

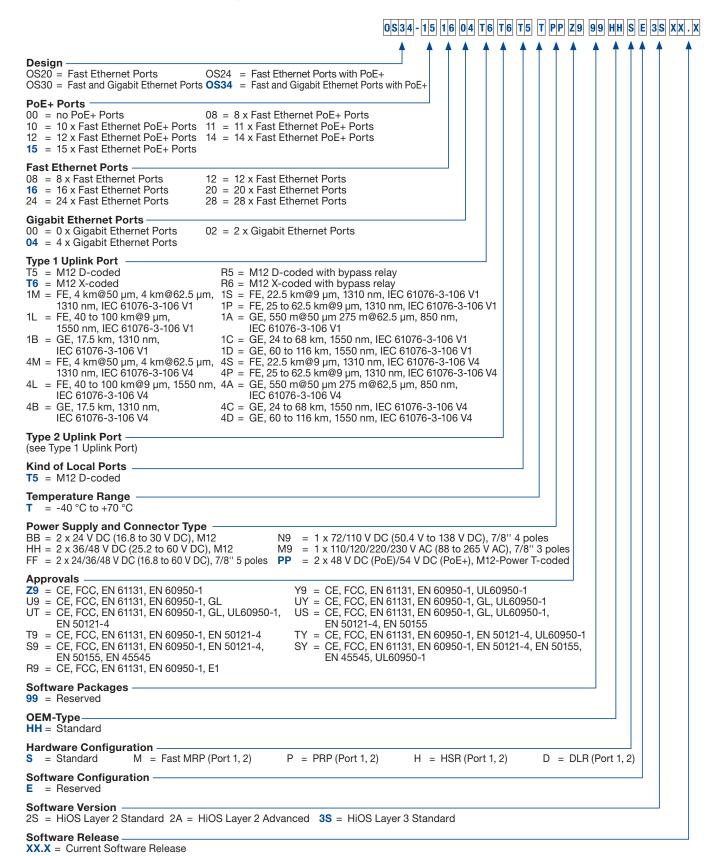
Technical Information

Product Description		
Туре	OCTOPUS OS34-xx16xx-xxPPxx	OCTOPUS OS34-xx24xx-xxPPxx
Example Images		
Description	Managed IP65/IP67 switch in accordance with IEEE 802.3, st (10/100 Mbit/s) and Gigabit-Ethernet (10/100/1000 Mbit/s), N	ore-and-forward-switching and routing, electrical and optical Fast-Ethernet M12 ports (TX), IEC ports (FX), PoE+
Port Type and Quantity	Up to 20 ports, thereof max. 4 GE TX or FX, up to 15 PoE+	Up to 28 ports, thereof max. 4 GE TX or FX, up to 15 PoE+
Network Size – Length of Cable		
Twisted Pair (TP)	0 to 100 m	
Fibre (FX)	0 to 116 km	
Power Requirements		
Operating Voltage	54 V DC	
Ambient Conditions		
Operation Temperature	-40 °C to +70°C	
Relative Humidity (also-condensing)	10% to 100%	
Mechanical Construction	100000	
Dimensions (W x H x D)	261 x 189 x 105 mm	338 x 189 x 105 mm
Weight	3600 g	4100 g
Protection Class	IP65 and IP67	4100 g
Software	ii oo ala ii o	
	Lada contra IVI ANI contra Francisco Contra II de contra IVI	
Switching	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; 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 (MRP)	
Redundancy	Device Level Ring (DLR); HIPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2); Fast MRP (IEC62439-2); MRP over Link Aggregation; High Availability Seamless Redundancy Protocol (HSR) (IEC62439-3); Parallel Redundancy Protocol (PRP) (IEC62439-3); Redundant Network Coupling; Sub Ring Manager; RSTP 802.1D-2004 (IEC62439-1); MSTP (802.1Q); RSTP Guards; VRRP; VRRP Tracking; HiVRRP (VRRP enhancements)	
Management	DNS Client; Dual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; V.24; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet	
	V1/V2/V3; Telliet	
Diagnostics	Management Address Conflict Detection; MAC Notification; Signature of ACA; Email Notification; Port Monitoring with Auto-Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port Mirro	gnal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; oring 1:1; Port Mirroring 8:1; Port Mirroring N:1; RSPAN; SFLOW; VLAN Mir- Cable Test; SFP Management; Configuration Check Dialog; Switch Dump
	Management Address Conflict Detection; MAC Notification; Signal Logging on ACA; Email Notification; Port Monitoring with Auto-Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port Mirrororing; System Information; Self-Tests on Cold Start; Copper Cautomatic Configuration Undo (roll-back); Configuration Fing Auto-Configuration; DHCP Server: per Port; DHCP Server: Po	Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; oring 1:1; Port Mirroring 8:1; Port Mirroring N:1; RSPAN; SFLOW; VLAN Mir-
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Diagnostics Configuration Security	Management Address Conflict Detection; MAC Notification; Sis Logging on ACA; Email Notification; Port Monitoring with Auto-Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port Mirroring; System Information; Self-Tests on Cold Start; Copper Continuity and Configuration Undo (roll-back); Configuration Fing Auto-Configuration; DHCP Server: Per Port; DHCP Server: Por DHCP Relay with Option 82; Command Line Interface (CLI); Context-sensitive Help MAC-based Port Security; Port-based Access Control with 80; RADIUS VLAN Assignment; RADIUS Policy Assignment; Multi-Dynamic ARP Inspection; Denial-of-Service Prevention; LDAP; based ACL; Ingress VLAN-based ACL; ACL Flow-based Limitin Audit Trail; CLI Logging; HTTPS Certificate Management; Rest Policy; Configurable Number of Login Attempts; SNMP Logging via RADIUS; User Account Locking	Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; oring 1:1; Port Mirroring 8:1; Port Mirroring N:1; RSPAN; SFLOW; VLAN Mircable Test; SFP Management; Configuration Check Dialog; Switch Dump Lerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with lools per VLAN; AutoConfiguration Adapter ACA21/22 (USB); HiDiscovery; CLI Scripting; Full-featured MIB Support; Web-based Management; 2:1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); Client Authentication per Port; MAC Authentication Bypass; DHCP Snooping; Ingress MAC-based ACL; Ingress IPv4-based ACL; Time-based ACL; VLAN-1g; Access to Management restricted by VLAN; Device Security Indication; tricted Management Access; Appropriate Use Banner; Configurable Password; Multiple Privilege Levels; Local User Management; Remote Authentication unffered Real Time Clock; SNTP Client; SNTP Server
Diagnostics Configuration Security Time Synchronization	Management Address Conflict Detection; MAC Notification; Sis Logging on ACA; Email Notification; Port Monitoring with Auto-Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port Mirroring; System Information; Self-sets on Cold Start; Copper Configuration; DHCP Server: Por Port; DHCP Server: Por DHCP Relay with Option 82; Command Line Interface (CLI); Context-sensitive Help MAC-based Port Security; Port-based Access Control with 80; RADIUS VLAN Assignment; RADIUS Policy Assignment; Multi-Dynamic ARP Inspection; Denial-of-Service Prevention; LDAP; based ACL; Ingress VLAN-based ACL; ACL Flow-based Limitin Audit Trail; CLI Logging; HTTPS Certificate Management; Rest Policy; Configurable Number of Login Attempts; SNMP Logging via RADIUS; User Account Locking PTPv2 Transparent Clock two-step; PTPv2 Boundary Clock; BitherNet/IP Protocol; IEC61850 Protocol (MMS Server, Switch)	Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; oring 1:1; Port Mirroring 8:1; Port Mirroring N:1; RSPAN; SFLOW; VLAN Mircable Test; SFP Management; Configuration Check Dialog; Switch Dump Lerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with lools per VLAN; AutoConfiguration Adapter ACA21/22 (USB); HiDiscovery; CLI Scripting; Full-featured MIB Support; Web-based Management; 2:1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); Client Authentication per Port; MAC Authentication Bypass; DHCP Snooping; Ingress MAC-based ACL; Ingress IPv4-based ACL; Time-based ACL; VLAN-1g; Access to Management restricted by VLAN; Device Security Indication; tricted Management Access; Appropriate Use Banner; Configurable Password; Multiple Privilege Levels; Local User Management; Remote Authentication unffered Real Time Clock; SNTP Client; SNTP Server
Diagnostics Configuration Security Time Synchronization Industrial Profiles	Management Address Conflict Detection; MAC Notification; Sis Logging on ACA; Email Notification; Port Monitoring with Auto-Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port Mirroring; System Information; Self-Tests on Cold Start; Copper Conting: System Information; Self-Tests on Cold Start; Copper Conting: Auto-Configuration; DHCP Server: per Port; DHCP Server: Por DHCP Relay with Option 82; Command Line Interface (CLI); Context-sensitive Help MAC-based Port Security; Port-based Access Control with 80; RADIUS VLAN Assignment; RADIUS Policy Assignment; Multi-Dynamic ARP Inspection; Denial-of-Service Prevention; LDAP; based ACL; Ingress VLAN-based ACL; ACL Flow-based Limitin Audit Trail; CLI Logging; HTTPS Certificate Management; Rest Policy; Configurable Number of Login Attempts; SNMP Logging via RADIUS; User Account Locking PTPv2 Transparent Clock two-step; PTPv2 Boundary Clock; BletherNet/IP Protocol; IEC61850 Protocol (MMS Server, Switch PoE (802.3af); PoE+ (802.3at); PoE+ Manual Power Managen IP/UDP Helper; Full Wire-Speed Routing; Port-based Router In	Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Oring 1:1; Port Mirroring 8:1; Port Mirroring N:1; RSPAN; SFLOW; VLAN Mircable Test; SFP Management; Configuration Check Dialog; Switch Dump Lerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with lools per VLAN; AutoConfiguration Adapter ACA21/22 (USB); HiDiscovery; CLI Scripting; Full-featured MIB Support; Web-based Management; 2.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); Client Authentication per Port; MAC Authentication Bypass; DHCP Snooping; Ingress MAC-based ACL; Ingress IPv4-based ACL; Time-based ACL; VLAN-Ing; Access to Management restricted by VLAN; Device Security Indication; tricted Management Access; Appropriate Use Banner; Configurable Passworg; Multiple Privilege Levels; Local User Management; Remote Authentication uffered Real Time Clock; SNTP Client; SNTP Server
Diagnostics Configuration Security Time Synchronization Industrial Profiles Miscellaneous	Management Address Conflict Detection; MAC Notification; Sis Logging on ACA; Email Notification; Port Monitoring with Auto-Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port Mirroring; System Information; Self-Tests on Cold Start; Copper Continuity and Configuration; DHCP Server: Per Port; DHCP Server: Por DHCP Relay with Option 82; Command Line Interface (CLI); Context-sensitive Help MAC-based Port Security; Port-based Access Control with 80; RADIUS VLAN Assignment; RADIUS Policy Assignment; Multi-Dynamic ARP Inspection; Denial-of-Service Prevention; LDAP; based ACL; Ingress VLAN-based ACL; ACL Flow-based Limitin Audit Trail; CLI Logging; HTTPS Certificate Management; Rest Policy; Configurable Number of Login Attempts; SNMP Logging via RADIUS; User Account Locking PTPv2 Transparent Clock two-step; PTPv2 Boundary Clock; BietherNet/IP Protocol; IEC61850 Protocol (MMS Server, Switch PoE (802.3af); PoE+ (802.3at); PoE+ Manual Power Managen IP/UDP Helper; Full Wire-Speed Routing; Port-based Router In Net-directed Broadcasts; 1:1 NAT; OSPFv2; RIP v1/v2; ICMP F	Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; oring 1:1; Port Mirroring 8:1; Port Mirroring N:1; RSPAN; SFLOW; VLAN Mircable Test; SFP Management; Configuration Check Dialog; Switch Dump Lerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with holos per VLAN; AutoConfiguration Adapter ACA21/22 (USB); HiDiscovery; CLI Scripting; Full-featured MIB Support; Web-based Management; CLI Scripting; Full-featured MIB Support; Web-based Management; (IAS); Client Authentication per Port; MAC Authentication Bypass; DHCP Snooping; Ingress MAC-based ACL; Ingress IPv4-based ACL; Time-based ACL; VLAN-ng; Access to Management restricted by VLAN; Device Security Indication; tricted Management Access; Appropriate Use Banner; Configurable Passworg; Multiple Privilege Levels; Local User Management; Remote Authentication uffered Real Time Clock; SNTP Client; SNTP Server Model); ModbusTCP; PROFINET IO Protocol ment; PoE Fast Startup; Manual Cable Crossing; Port Power Down terfaces; VLAN-based Router Interfaces; Loopback Interface; ICMP Filter;
Diagnostics Configuration Security Time Synchronization Industrial Profiles Miscellaneous Routing Multicast Routing	Management Address Conflict Detection; MAC Notification; Sis Logging on ACA; Email Notification; Port Monitoring with Auto-Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port Mirroring; System Information; Self-Tests on Cold Start; Copper Cantomatic Configuration Undo (roll-back); Configuration; DHCP Server: Per Port; DHCP Server: Por DHCP Relay with Option 82; Command Line Interface (CLI); Context-sensitive Help MAC-based Port Security; Port-based Access Control with 80; RADIUS VLAN Assignment; RADIUS Policy Assignment; Multi-Dynamic ARP Inspection; Denial-of-Service Prevention; LDAP; based ACL; Ingress VLAN-based ACL; ACL Flow-based Limitin Audit Trail; CLI Logging; HTTPS Certificate Management; Rest Policy; Configurable Number of Login Attempts; SNMP Logging via RADIUS; User Account Locking PTPv2 Transparent Clock two-step; PTPv2 Boundary Clock; BietherNet/IP Protocol; IEC61850 Protocol (MMS Server, Switch PoE (802.3af); PoE+ (802.3at); PoE+ Manual Power Managen IP/UDP Helper; Full Wire-Speed Routing; Port-based Router In Net-directed Broadcasts; 1:1 NAT; OSPFv2; RIP v1/v2; ICMP F Tracking	Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; oring 1:1; Port Mirroring 8:1; Port Mirroring N:1; RSPAN; SFLOW; VLAN Mircable Test; SFP Management; Configuration Check Dialog; Switch Dump Lerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with holos per VLAN; AutoConfiguration Adapter ACA21/22 (USB); HiDiscovery; CLI Scripting; Full-featured MIB Support; Web-based Management; CLI Scripting; Full-featured MIB Support; Web-based Management; (IAS); Client Authentication per Port; MAC Authentication Bypass; DHCP Snooping; Ingress MAC-based ACL; Ingress IPv4-based ACL; Time-based ACL; VLAN-ng; Access to Management restricted by VLAN; Device Security Indication; tricted Management Access; Appropriate Use Banner; Configurable Passworg; Multiple Privilege Levels; Local User Management; Remote Authentication uffered Real Time Clock; SNTP Client; SNTP Server Model); ModbusTCP; PROFINET IO Protocol ment; PoE Fast Startup; Manual Cable Crossing; Port Power Down terfaces; VLAN-based Router Interfaces; Loopback Interface; ICMP Filter;
Diagnostics Configuration Security Time Synchronization Industrial Profiles Miscellaneous Routing Multicast Routing Approvals	Management Address Conflict Detection; MAC Notification; Sil Logging on ACA; Email Notification; Port Monitoring with Auto-Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port Mirroring; System Information; Self-Tests on Cold Start; Copper Cantomatic Configuration Undo (roll-back); Configuration; DHCP Server: Per Port; DHCP Server: Por DHCP Relay with Option 82; Command Line Interface (CLI); Context-sensitive Help MAC-based Port Security; Port-based Access Control with 80: RADIUS VLAN Assignment; RADIUS Policy Assignment; MILD ynamic ARP Inspection; Denial-of-Service Prevention; LDAP; based ACL; Ingress VLAN-based ACL; ACL Flow-based Limitin Audit Trail; CLI Logging; HTTPS Certificate Management; Rest Policy; Configurable Number of Login Attempts; SNMP Logging via RADIUS; User Account Locking PTPv2 Transparent Clock two-step; PTPv2 Boundary Clock; Be EtherNet/IP Protocol; IEC61850 Protocol (MMS Server, Switch PoE (802.3af); PoE+ (802.3at); PoE+ Manual Power Managen IP/UDP Helper; Full Wire-Speed Routing; Port-based Router In Net-directed Broadcasts; 1:1 NAT; OSPFv2; RIP v1/v2; ICMP F Tracking IGMP v1/v2/v3; IGMP Proxy (Multicast Routing)	Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; oring 1:1; Port Mirroring 8:1; Port Mirroring N:1; RSPAN; SFLOW; VLAN Mircable Test; SFP Management; Configuration Check Dialog; Switch Dump Lerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with lools per VLAN; AutoConfiguration Adapter ACA21/22 (USB); HiDiscovery; CLI Scripting; Full-featured MIB Support; Web-based Management; 2:1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); Client Authentication per Port; MAC Authentication Bypass; DHCP Snooping; Ingress MAC-based ACL; Ingress IPv4-based ACL; Time-based ACL; VLAN-ing; Access to Management restricted by VLAN; Device Security Indication; tricted Management Access; Appropriate Use Banner; Configurable Password; Multiple Privilege Levels; Local User Management; Remote Authentication uffered Real Time Clock; SNTP Client; SNTP Server Model); ModbusTCP; PROFINET IO Protocol ment; PoE Fast Startup; Manual Cable Crossing; Port Power Down Iterfaces; VLAN-based Router Interfaces; Loopback Interface; ICMP Filter;
Diagnostics Configuration Security Time Synchronization Industrial Profiles Miscellaneous Routing Multicast Routing	Management Address Conflict Detection; MAC Notification; Sis Logging on ACA; Email Notification; Port Monitoring with Auto-Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port Mirroring; System Information; Self-Tests on Cold Start; Copper Cantomatic Configuration Undo (roll-back); Configuration; DHCP Server: Per Port; DHCP Server: Por DHCP Relay with Option 82; Command Line Interface (CLI); Context-sensitive Help MAC-based Port Security; Port-based Access Control with 80; RADIUS VLAN Assignment; RADIUS Policy Assignment; Multi-Dynamic ARP Inspection; Denial-of-Service Prevention; LDAP; based ACL; Ingress VLAN-based ACL; ACL Flow-based Limitin Audit Trail; CLI Logging; HTTPS Certificate Management; Rest Policy; Configurable Number of Login Attempts; SNMP Logging via RADIUS; User Account Locking PTPv2 Transparent Clock two-step; PTPv2 Boundary Clock; BietherNet/IP Protocol; IEC61850 Protocol (MMS Server, Switch PoE (802.3af); PoE+ (802.3at); PoE+ Manual Power Managen IP/UDP Helper; Full Wire-Speed Routing; Port-based Router In Net-directed Broadcasts; 1:1 NAT; OSPFv2; RIP v1/v2; ICMP F Tracking	Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; oring 1:1; Port Mirroring 8:1; Port Mirroring N:1; RSPAN; SFLOW; VLAN Mircable Test; SFP Management; Configuration Check Dialog; Switch Dump Lerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with holos per VLAN; AutoConfiguration Adapter ACA21/22 (USB); HiDiscovery; CLI Scripting; Full-featured MIB Support; Web-based Management; CLI Scripting; Full-featured MIB Support; Web-based Management; (IAS); Client Authentication per Port; MAC Authentication Bypass; DHCP Snooping; Ingress MAC-based ACL; Ingress IPv4-based ACL; Time-based ACL; VLAN-ng; Access to Management restricted by VLAN; Device Security Indication; tricted Management Access; Appropriate Use Banner; Configurable Passworg; Multiple Privilege Levels; Local User Management; Remote Authentication uffered Real Time Clock; SNTP Client; SNTP Server Model); ModbusTCP; PROFINET IO Protocol ment; PoE Fast Startup; Manual Cable Crossing; Port Power Down terfaces; VLAN-based Router Interfaces; Loopback Interface; ICMP Filter;

NOTE: These are the prominent technical specifications. For complete technical specifications visit: www.hirschmann.com



OCTOPUS OS20/30 Configurations



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