

Woodpecker 7015

Unmanaged 8 x 10/100/1000 RJ45 & 2 x GbE SFP Industrial Switch

Description

Woodpecker 7015, 8-port 10/100/1000Base-T + 2-slot Gigabit SFP is the latest development of Volktek's Unmanaged Industrial Gigabit Ethernet Switch, specifically designed for high-speed industrial Ethernet networks that demand both, high bandwidths and rugged connectivity. The switch can able to operate in wide temperatures ranging from -40°C to 70°C and absorb higher than normal degrees of vibration and shock, making it perfectly suitable and safe choice for harsh industrial environments. Equipped with 8-10/100/1000Base-T ports, the Woodpecker 7015 supports both Gigabit and Fast Ethernet options with Auto MDI/MDIX and Auto-negotiation to offer greater flexibility in choosing the type of connectivity you need.

In addition the switch supports advance Storm Control and QoS functionality to ensure delivery of critical data with optimized network traffic. With 2-slot Gigabit SFP, the switch can be expanded by cascading two or more switches together in a 'daisy-chain' fashion. Redundant power supply with wide-range input power, built-in relay alarm for instant notification of power and port failure, DIN-Rail mounting and many more features of the Woodpecker 7015 fulfill the special needs of Industrial Ethernet networks.



Features Highlight

Robust Switch Performance

Configuring with IP30 aluminum case, surge, power voltage drop, alarm, and ESD protection, the Woodpecker 7015 provides a high level of immunity against electromagnetic interference and heavy electrical surges tolerating tough operating industrial temperatures -40°C~70°C.

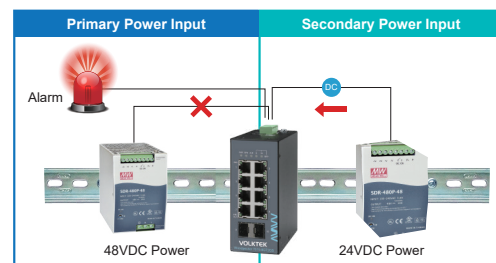


Efficient Storm Control Mechanism

In the challenging industrial environment, the Ethernet Switches are connected with various other devices which sometimes get defective or virus affected and thus results generation of huge amount of broadcast traffic that can impact the entire transmission process. To address this issue, Woodpecker 7015 is configured with efficient Storm Control functionalities which can only allow the traffic of a predefined rate. The Storm Control function can easily managed by DIP Switch without any burden of manual enable and disable.

Redundant Power Supply

The Woodpecker 7015 is designed with an impressive, much more compact and safer industrial terminal block for redundant power, offering a low-cost, simple solution to the problem of unexpected power failures. In case the primary power supply fails, the Woodpecker 7015's terminal block immediately powers switch with redundant power supply, and enables to provide continuous network services to mission-critical applications in industrial environments. Thus protecting the network from a single failure of a network device power supply and resulting in more reliable network.



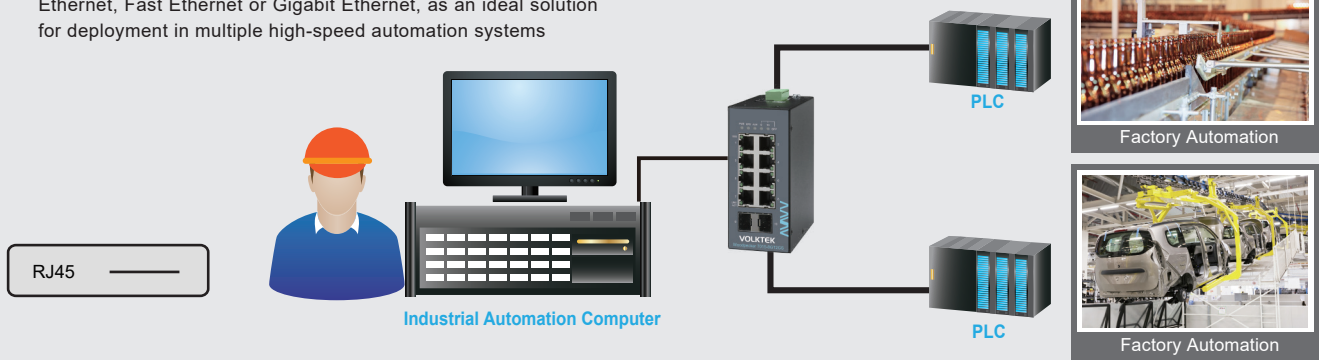
Comprehensive QoS Mechanism

Understanding the need of smoother data transmissions for specific industrial applications, the Woodpecker 7015 supports IEEE 802.1p Quality of Service (QoS) which enhances bandwidth utilization to ensure time sensitive data gets delivered efficiently to mission-critical applications without any delay even during burst of high traffic.

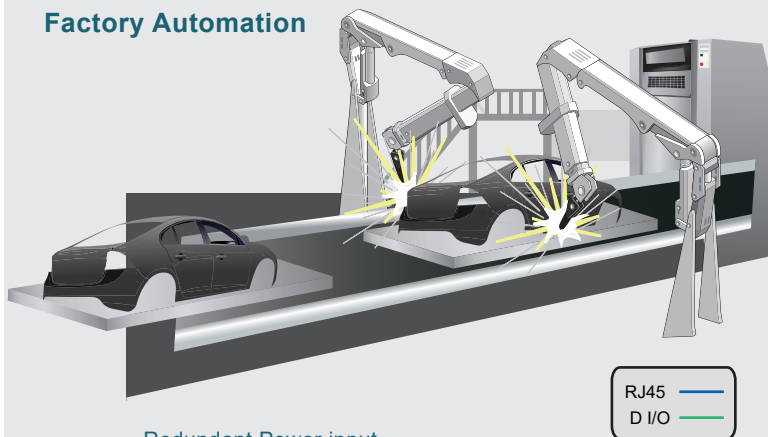


Applications

The Woodpecker 7015 is compatible with 10/100/1000Mbps through RJ45 to guarantee a strong, stable connection of Ethernet, Fast Ethernet or Gigabit Ethernet, as an ideal solution for deployment in multiple high-speed automation systems



Factory Automation

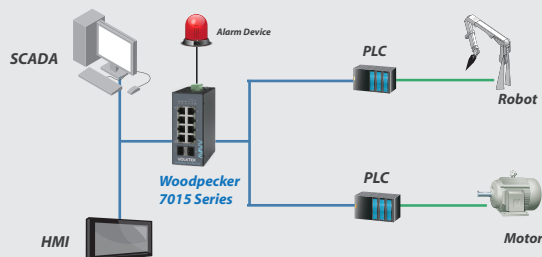


Redundant Power input

The Woodpecker 7015 has dual power inputs to provide a redundant system against power supply disruptions. In case of one power source failure, the other acts as a backup to remain continuous network power for critical industrial applications.

Relay Output Alarm for Power Failure

The Woodpecker 7015 is built with relay contact outputs that trigger alarms to notify network engineers in the event of power failure, and enables them to quickly respond and resolve high priority issues.



Specifications

Standards	
IEEE 802.3	10BASE-T
IEEE 802.3u	100BASE-TX
IEEE 802.3ab	1000BASE-T
IEEE 802.3z	1000BASE-SX/LX
IEEE 802.3x	Flow Control
IEEE 802.1p	Class of Service
Interface	
Ports	8 x 10/100/1000BASE-T (RJ45) 2 x Gigabit SFP Slots
DIP Switch	Power voltage drop alarm setting (PWR & RPS), Voltage drop alarm setting
LED Panel	PWR, RPS, ALM, SFP, 1000, LNK/ACT
Features	
Performance	Max Jumbo Frame Size: 10KBytes MAC Table Entries: 8K Switch Fabric: 20Gbps L2 Forwarding Rate: 14.8Mpps
Traffic Control	Broadcast/DLF Storm control, Ethernet IP(EIP) QoS, GOOSE QoS, PROFINET QoS, Flow control, 802.1p QoS, LLDP packet discarding, VLAN Tunnel
Power	
Input Voltage	Primary inputs: 24/48VDC Redundant Inputs: 24/48VDC
System Power Consumption	11W
Alarm Relay	One relay output with current carrying capacity of 1A@ 24V DC
Mechanical and Environment	
Housing	Metal (IP30 protection)
Mounting Kit	DIN-Rail
Operating Temperature	-40°C~70°C
Storage Temperature	-40°C~85°C
Operating Humidity	5 to 95% RH (non-condensing)
Storage Humidity	5 to 95% RH (non-condensing)
Weight	550g
Dimension (WxHxD)	50x116x100mm (1.97x4.6x4inch)

Standards and Certifications

EMI	FCC Part 15 Subpart B Class A EN 55032: Class A EN 55011:2016 Class A EN 61000-6-4
EMS	EN 55024 IEC 61000-4-2 (ESD) IEC 61000-4-3 (RS) IEC 61000-4-4 (EFT) IEC 61000-4-5 (Surge) IEC 61000-4-6 (CS) IEC 61000-4-8 (PFMF) EN 61000-6-2
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-31
Vibration	IEC 60068-2-6

Ordering Information

Woodpecker 7015	Unmanaged 8 x 10/100/1000 RJ45 & 2 x GbE SFP Industrial Switch
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Optional Accessories

Power Supply	SDR-120-48: 120W DIN-Rail 48V DC Industrial Power Supply, -25°C~70°C
GBM-104	1000BASE-SX 1.25G, Multi-mode SFP, 500m
GBM-104-10	1000BASE-LX 1.25G, Single mode SFP, 10Km
GBM-123TS	1000BASE-LX, Bi-Di SFP TX:1310/RX:1550 Single Mode, 10Km, 0°C~70°C / -32°F~158°F
GBM-123RS	1000BASE-LX, Bi-Di SFP TX:1550/RX:1310 Single Mode, 10Km, 0°C~70°C / -32°F~158°F

*Industrial SFP with wide operating temperature from -40°C~85°C is available upon request

*Specifications subject to change without notice.

Dimension

