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## Features

- Integrated Ethernet and RS-232/RS-422/RS-485 serial interface
- Supports 32 Modbus TCP master and slave mode devices
- Industrial standard 12~48V DC power backup, or 9~48V DC and 24V AC power backup
- Supports 10/100BASE-TX RJ45 transmission distance up to 100 meters
- Support Modbus RTU. ASCII Master/Slave

## Specifications

Serial Interface				
Serial Ports	1 x DB9 male for RS-232			
Serial Standards	RS-232/ 4-wire RS-422 or RS-485/ 2-wire RS-485			
Baud Rate (Data Rate)	50bps to 921Kbps			
Data Bits	5, 6, 7, 8			
Stop Bit	1, 1.5, 2			
Parity Type	Odd, Even, None, Space, Mark			
Flow Control	RTS/CTS and DTR/DSR (RS-232 only) XON/XOFF			
Signals	RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND RS-422: Tx+, Tx-, Rx+, Rx-, GND 4-wire RS-485: Tx+, Tx-, Rx+, Rx-, GND 2-wire RS-485: Data A (+), Data B (-), GND			
Pin Assignment	Pin	RS-232	RS-422 RS-485-4W	RS-485-2W
	1	DCD	TxD+	-
	2	RxD	TxD-	-
	3	TxD	RxD-	Data-
	4	DTR	RxD+	Data+
	5	GND	GND	GND
	6	DSR	-	-
	7	RTS	-	-
	8	CTS	-	-
9	-	-	-	
Operation Mode	RTU Master/RTU Slave/ASCII Master/ASCII Slave Master mode: Supports up to 32 TCP slave connection requests Slave mode: Supports up to 32 TCP master connection requests			

Ethernet Interface	
Ethernet Ports	1 x RJ45
Standard	10/100BASE-TX
Distance	100m
ESD Protection	6KV
Surge Protection	2KV

Hardware	
Installation	DIN-rail kit and wall-mount ear
Enclosure	IP30 metal
Dimensions (WxDxH)	32 x 87.8 x 135 mm
Weight	392g
LED Indicators	System: Power 1, Power 2, Alarm, SYS TP Port: Link/Active Serial Port: Tx and Rx
Power Requirements	9~48V DC/ 24V AC, redundant power with reverse polarity protection

Hardware	
Power Consumption	Full Loading
	9V DC: 0.35A (3.15 watts)
	12V DC: 0.28A (3.36 watts)
	24V DC: 0.12A (3 watts)
Connector	48V DC: 0.08A (3.84 watts)
	Removable 6-pin terminal block for power input Pin 1/2 for Power 1, Pin 3/4 for fault alarm, Pin 5/6 for Power 2
Alarm	Provides one relay output for power failure Alarm relay current carry ability: 1A@DC 24V
Reset Button	< 5 sec: System reboot > 5 sec: Factory default

Management	
Management Interfaces	Web management
	Telnet Console management
	Windows-based VCOM Utility management
IP Version	IPv4 and IPv6
Operation Mode	RTU Master
	RTU Slave
	ASCII Master
	ASCII Slave
Virtual COM Utility Platform Supports	Windows-based only:
	Windows XP
	Windows Server 2003
	Windows 7
	Windows Server 2008
	Windows 8 (Must install the latest version of WinPcap) Windows Server 2012 (Must install the latest version of WinPcap) Windows 10
Fault Alarm	Record: System log / SNMP trap
Time	NTP
Security	Allow maximum 4 accessible IP address hosts/ranges
SNMP MIBs	RFC1213 MIB-II
	RFC1317 RS232-like MIB

Standards Conformances	
Regulatory Compliance	FCC Part 15 Class A, CE Certification Class A
Stability Testing	IEC60068-2-32 (Free fall)
	IEC60068-2-27 (Shock)
	IEC60068-2-6 (Vibration)
Standards	IEEE 802.3 10BASE-T
	IEEE 802.3u 100BASE-TX
	RFC 768 UDP
	RFC 793 TFTP
	RFC 791 IP
	RFC 792 ICMP
	RFC 854 Telnet
	RFC 958 NTP
	RFC 1591 DNS (client only)
	RFC 1908 SNMPv2c
	RFC 2068 HTTP
	RFC 2131 DHCP Client
	RFC 2732 Format for Literal IPv6 Addresses in URL's
	RFC 3315 DHCPv6 Client
	RFC 3513 IPv6 Addressing Architecture
	RFC 3596 DNSv6
RFC 4443 ICMPv6	
EIA/TIA RS232/422/485	
Regulatory Approval	RoHS
Temperature	-40~85°C
Humidity	5 to 95%, non-condensing

## Dimensions

