

IDS-312L

Industrial secure serial port to Ethernet device server with 1xRS-232/422/485 and 2x10/100Base-T(X)

Features

- Operating Modes: Virtual Com, Serial Tunnel, TCP Server, TCP Client, UDP and Modbus Gateway
- Support Modbus Gateway: Modbus TCP, Modbus RTU and Modbus ASCII
- Support 1xRS-232/422/485 in DB9 connector
- Redundant multiple host devices:
 - 5 host devices: Virtual COM, TCP Server, TCP Client mode; 4 IP ranges: UDP
- > Event Warning by Syslog, Email, SNMP trap
- Configurable by Web-based and Windows utility (DS-Tool)
- Various Windows O.S. supported: Windows NT/2000/ XP/ 2003/VISTA(32/64bit)/ Windows 7(32/64bit)



Introduction

IDS-312L is an innovative secure 1 port RS-232/422/485 to 2 port LAN device server with standard features of device server, such like TCP/IP interface and versatile operation modes: Virtual Com, Serial Tunnel, TCP Server, TCP Client, and UDP. In addition, the Windows untility, DS-Tool, could configure multiple devices and set up the mappings of Virtual Com. On the other hand, IDS-312L can simultaneously transfer data up to 5 redundant host PCs to aovid Ethernet connection breakdown or any host PC fails.

IDS-312L supports RS-232/422/485 and provides dual redundant power inputs, 12~48 VDC, on terminal block to guarantee a non-stop operation. With wide operating temperature, -40~70°C, and rugged IP-30 housing design, IDS-312L series could operate in the harsh industrial environment. Therefore, IDS-312L is the best solution to the high demand of secure serial to Ethernet critical data communication.

Pin Definition



DB9 connector

Pin #	RS-232	RS-422	RS-485 (4 wire)	RS-485 (2 wire)
1	DCD	TX-	TX-	
2	RXD	TX+	TX+	
3	TXD	RX+	RX+	DATA+
4	DTR	RX-	RX-	DATA-
5	GND	GND	GND	GND
6	DSR			
7	RTS			
8	CTS			

DIP Switch

150KQ 1KQ	SW No.	Description	
	#1	150K / 1K Ohm Dull High/Low Pasister	
$\begin{array}{c c} \text{/Low} & \textbf{L} & \textbf{N} & \blacksquare & \textbf{V} \\ \hline \text{Term.} & \textbf{H} & \textbf{U} & \blacksquare & \textbf{W} \\ \hline \text{Res.} & \textbf{U} & \blacksquare & \textbf{U} \end{array}$	#2	150K / 1K Ohm Pull High/Low Resistor	
	#3	Enable / Disable Terminal Resistor	

Dimension

Unit: mm



Specifications

Physical Parts 2 10/100 Base-T(X) Ports in RV45 Auko MD/MOX 2 Serial Ports 0 Connector DB9 x 1 Operation Mode R5-232/422/485 Serial Baud Rate 110 Date 521.6 Kbps Data Bits 7.8 Parity odd, even, none, mark, space Stop Bits 1.15, 2 R5-232 TxD, RXD, RTS, CTS, DTR, DSR, DCD, CND R5-425 TxT, TxF, RX+, RX- R5-425 Ywire: Data-, Data + rlow Control XONXOFT, RTS/CTS, DTR/DSR Network Protocol Ywire: Data-, Data + rlow Control XONXOFT, RTS/CTS, DTR/DSR Network Protocol Ywire: Data -, Data + Prover Indicator Green On: Power is on ID/001X RMS port indicator Green On: Power is on ID/0101X RMS port indicator Green Serial port is receiving data Green Serial port is receiving data Green: Se	ORing Device Server Model	IDS-312L	
Auto MDI/MDIX Provide the set of the	Physical Ports		
Connector DB9 x 1 Operation Mode RS-232/422/485 Serial Baud Rate 110 bps to 921.6 Kbps Data Bits 7, 8 Parity odd, even, none, mark, space Stop Bits 1, 1.5, 2 RS-232 TxO, RxD, RTS, CTS, DTR, DSR, DCD, GND RS-422 Tx-, Tx+, Rx+, Rx- RS-485 4 wire: Tx-, Tx+, Rx+, Rx- RS-486 4 wire: Tx-, Tx+, Rx+, Rx- RVMCW Protocol XOW, XOFF, RTS/CTS, DTR/DSR Network Protocol XOW, XOFF, RTS/CTS, DTR/DSR Network Protocol XOW, XOFF, RTS/CTS, DTR/DSR Power indicator 2 x LEDs, PWR 1(2) / Ready: Green On: Power is on 10/100TX R45 port indicator Green for power is on 10/100TX R45 port indicator Green for power is on 10/100TX R45 port indicator Green for thir/Ak at 100Mbps. Serial TX / R X LEDs: Amber: Serial port is transmitting data Power Dual DC Inputs. 12-48VDC on 4-pin terminal block Power consumption (Typ.) 1.44 W Overload current protection Present Reveres polarity protection Present		2	
Operation Mode RS-232/42/485 Serial Baud Rate 110 bps to 921.6 Kbps Data Bits 7, 8 Parity odd, even, none, mark, space Stop Bits 1, 1.5, 2 RS-232 TxO, RxO, RTS, CTS, DTR, DSR, OCD, GND RS-422 Txo, TxA, Rx+, Rx- RS-423 Txo, TxA, Rx+, Rx- RS-424 Wire: Tx-, Tx+, Rx+, Rx- RS-435 4 wire: Tx-, Tx+, Rx+, Rx- RS-436 4 wire: Tx-, Tx+, Rx+, Rx- RS-435 2 wire: Data- Flow Control XOWXOFF, RTS/CTS, DTR/DSR Network Protocol Foreen To: Power Is on ICMP indicator Creen On: Power is on 10/100TX RV45 port indicator Green for port Link/Act at 100Mbps. Serial Tx / Rx LEDs: Amber: Serial port is receiving data Creen: Serial port is receiving data Green: Green Serial port is receiving data Power Dual DC inputs. 12-48VDC on 4-pin terminal block Power Power Onsumption (Typ.) I.44 W Overhoad Reservapolarity protection Present Reservapolarity protection	Serial Ports		
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Data Bits7, 8Parityodd, even, none, mark, spaceStop Bits1, 1.5, 2RS-232TxD, RXD, RTS, CTS, DTR, DSR, DCD, GNDRS-422Tx., Tx+, Rx+, Rx-RS-4854 wire: Tx-, Tx+, Rx+, Rx-RS-4852 wire: Data-, Data+Flow ControlXON/XOFF, RTS/CTS, DTR/DSRNetwork Protocol7Protocol1 CMP, IP, TCP, UDP, DHCP, BOOTP, DNS, SNMP V1/V2c, HTTPS, SMTPLED indicators2 x LEDs, PWR 1(2) / Ready: Green On: Power is onPower indicator2 x LEDs, PWR 1(2) / Ready: Green for port Link/Act at 100Mbps.Serial TX / RX LEDs:Amber: Serial port is transmitting data Green: Serial port is transmitting dataPowerDual DC inputs. 12-48VDC on 4-pin terminal blockPower oxerotionPresentPower oxerotionPresentPower oxerotionPresentPhysical Character1sticEndosureEndosure1P-30Dimension (W x D x H)26 (W) x 75 (D) x 110 (H) mmWeight (g)25% to 95% Non-condensingRegulatory approvals-40 to 55°C (-40 to 185°F)Operating Temperature-40 to 70°C (-40 to 158°F)Operating Temperature-40 to 70°C (-40 to 158°F)	Operation Mode	RS-232/422/485	
Parityodd, even, none, mark, spaceStop Bits1, 1.5, 2Stop Bits1, 1.5, 2RS-232TxD, RxD, RTS, CTS, DTR, DSR, DCD, GNDRS-422Tx-, Tx+, Rx+, Rx-RS-4854 wire: Tx-, Tx+, Rx+, Rx-2 wire: Data2 wire: DataFlow ControlXON/XOFF, RTS/CTS, DTR/DSRNetwork ProtocolICMP, IP, TCP, UDP, DHCP, BOOTP, DNS, SNMP V1/V2c, HTTPS, SMTPLED Indicators2 x LEDs, PWR 1(2) / Ready: Green On: Power is onPower indicator2 x LEDs, PWR 1(2) / Ready: Green for port Link/Act at 100Mpss.Serial TX / RX LEDs:Amber: Serial port is transmitting dataPowerUnit Duit DC inputs. 12-46VDC on 4-pin terminal blockPower ossumption (Typ.)1.44 WOverload current protectionPresentPresentIP-30Dimension (W x D x H)26 (W) x 75 (D) x 110 (H) mmWeight (g)227gStorage Temperature-40 to 85°C (-40 to 185°F)Operating Temperature-40 to 70°C (-40 to 185°F)Operating Temperat	Serial Baud Rate	110 bps to 921.6 Kbps	
Stop Bits1, 1.5, 2RS-232TxO, RxO, RTS, CTS, DTR, DSR, DCD, GNDRS-422Tx-, Tx+, Rx+, Rx-RS-4854 wire: Tx-, Tx+, Rx+, Rx-Ro ControlXONXOFF, RTS/CTS, DTR/DSRNetwork ProtocolICMP, IP, TCP, UDP, DHCP, BOOTP, DNS, SNMP V1/V2c, HTTPS, SMTPLED Indicators2 x LEDs, PWR 1(2) / Ready: Green On: Power is on10/100TX R145 port indicatorGreen for port Link/Act at 100Mbps.Serial TX / RX LEDs:Anber: Serial port is receiving data Green: Serial port is transmitting dataPowerDual DC inputs. 12-48VDC on 4-pin terminal blockPower consumption (Typ.)1.44 WOverload current protectionPresentPhysical CharacteristicIP-30Dimension (W x D x H)26 (W) x 75 (D) x 110 (H) mmWeight (g)227gEnvironmental-40 to 85°C (-40 to 185°F)Operating Temperature-40 to 85°C (-40 to 185°F)Operating TemperatureFCC Part 158, CISPR 32 (ENS5032 Class A)EMIFCC Part 158, CISPR 32 (ENS5032 Class A)EMSIEC60068-2-27	Data Bits	7, 8	
RS-232 TXD, RxD, RTS, CTS, DTR, DSR, DCD, GND RS-422 Tx-, Tx+, Rx+, Rx- RS-455 4 wire: Tx-, Tx+, Rx+, Rx- 2 wire: Data-, Data+ Endote Flow Control XON/XOFF, RTS/CTS, DTR/DSR Metwork Protocol ICMP, IP, TCP, UDP, DHCP, BOOTP, DNS, SNMP V1/V2c, HTTPS, SMTP Protocol ICMP, IP, TCP, UDP, DHCP, BOOTP, DNS, SNMP V1/V2c, HTTPS, SMTP LED indicators 2 x LEDs, PWR 1(2) / Ready: Ower indicator 2 x LEDs, PWR 1(2) / Ready: Green for port Link/Act at 100Mbps. Amber: Serial port is receiving data Green: Serial port is transmitting data Green: Serial port is receiving data Power Dual DC inputs. 12-48VDC on 4-pin terminal block Power consumption (Typ.) 1.44 W Overload current protection Present Reverse plarity protection Present Publical Characteristic IP-30 Dimension (W x D x H) 26 (W) x 75 (D) x 110 (H) mm Weight (g) 227g Endosure IP-30 Dimension (W x D x H) 26 (W) x 75 (D) x 110 (H) mm Weight (g) 227g Environmental FCC Part 158, CISPR 32 (ENS5032 Class A)	Parity	odd, even, none, mark, space	
RS-422Tx., Tx+, Rx+, Rx-RS-4854 wire: Tx., Tx+, Rx+, Rx- 2 wire: Data-, Data+Flow ControlXON/XOFF, RTS/CTS, DTR/DSRNetwork ProtocolICMP, IP, TCP, UDP, DHCP, BOOTP, DNS, SNMP V1/V2c, HTTPS, SMTPLED indicators2 x LEDs, PWR 1(2) / Ready: Green for: Power is on10/100TX RJ45 port indicatorGreen for: Power is on10/100TX RJ45 port indicatorGreen for: port Link/Act at 100Mbps.Serial TX / RX LEDs:Amber: Serial port is receiving data Green: Serial port is transmitting dataPowerDual DC inputs. 12-48VDC on 4-pin terminal blockPower consumption (Typ.)1.44 WOverload current protectionPresentReverse polarity protectionPresentPhysical CharacteristicIP-30Dimension (W x D x H)26 (W) x 75 (D) x 110 (H) mmWeight (g)227gExtransmitting temperature-40 to 85°C (-40 to 185°F)Operating Temperature-40 to 70°C (-40 to 185°F)Operating Humidity5% to 95% Non-condensingRegulatory approvalsENG1000-4-2 (ESD), ENG1000-4-3 (RS), ENG1000-4-4 (EFT), ENG1000-4-5 (Surge), ENG100 ENG1000-4-3 (RS), ENG1000-4-4 (EFT), ENG1000-4-5 (Surge), ENG100	Stop Bits	1, 1.5, 2	
RS-4854 wire: Tx-, Tx+, Rx+, Rx- 2 wire: Data-, Data+Flow ControlXON/XOFF, RTS/CTS, DTR/DSRNetwork ProtocolICMP, IP, TCP, UDP, DHCP, BOOTP, DNS, SNMP V1/V2c, HTTPS, SMTPLED Indicators2 x LEDs, PWR 1(2) / Ready: Green On: Power is on10/100TX RJ4S port indicatorGreen for port Link/Act at 100Mbps.Serial TX / RX LEDs:Amber: Serial port is transmitting data Green Serial port is transmitting dataPowerDual DC inputs. 12-48VDC on 4-pin terminal blockPower consumption (Typ.)1.44 WOverfoad current protectionPresentRedundant Input powerDual DC inputs. 12-48VDC on 4-pin terminal blockPower consumption (Typ.)1.44 WOverfoad current protectionPresentReverse polarity protectionPresentEndosureIP-30Dimension (W x D x H)26 (W) x 75 (D) x 110 (H) mmWeight (g)227gEnvironmental-40 to 85°C (-40 to 185°F)Operating Temperature-40 to 70°C (-40 to 158°F)Operating Humidity5% to 95% Non-condensingRegulatory approvalsENG1000-4-2 (ESD), ENG1000-4-3 (RS), ENG1000-4-4 (EFT), ENG1000-4-5 (Surge), ENG100 ENG1000-4-8, ENG1000-4-11ShockIEC60068-2-27	RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND	
RS-485 2 wire: Data-, Data+ Flow Control XON/XOFF, RTS/CTS, DTR/DSR Network Protocol ICMP, IP, TCP, UDP, DHCP, BOOTP, DNS, SNMP V1/V2c, HTTPS, SMTP LED indicators 2 x LEDs, PWR 1(2) / Ready: Green On: Power is on 10/100TX RJ45 port indicator Green for port Link/Act at 100Mbps. Serial TX / RX LEDs: Amber: Serial port is receiving data Green On: Power is on Power Mamber: Serial port is receiving data Green On: Power is on Power Dual DC inputs. 12-48VDC on 4-pin terminal block Power consumption (Typ.) 1.44 W Overload current protection Present Power solution (Typ.) 1.44 W Overload current protection Present Physical Characteristic IP-30 Dimension (W x D x H) 26 (W) x 75 (D) x 110 (H) mm Weight (g) 227g Endosure -40 to 85°C (-40 to 185°F) Operating Temperature -40 to 70°C (-40 to 185°F) Operating Temperature -40 to 70°C (-40 to 158°F) Operating Humidity 5% to 95% Non-condensing Regulatory approvals ENS(1000-4-2 (ESD), ENS(1000-4-3 (RS), ENS(1000-4-4 (EFT), ENS(1000-4-5 (Surge), ENS(RS-422	Tx-, Tx+, Rx+, Rx-	
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Free Fall IEC60068-2-32	Shock	IEC60068-2-27	
	Free Fall	IEC60068-2-32	
Vibration IEC60068-2-6	Vibration	IEC60068-2-6	
Safety EN60950-1	Safety	EN60950-1	

Ordering Information



Packing List

- IDS-312L x 1
- Wall-Mount Kit x 2
- Din-Rail Kit x 1

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CD x 1

Quick Installation Guide x 1

Optional Accessories

- DR-45 series : 45 Watts power supply
- DR-120 series : 120 Watts power supply

DR-75 series : 75 Watts power supply

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