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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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Isolated Industrial Modbus Ethernet to Serial Gateways

MESR321 Series



PRODUCT FEATURES

- Three-way isolation
- Ethernet-enable Modbus RS-232/422/485
- Modbus TCP. ASCII & RTU
- Modbus flexibility serial & Ethernet, masters & slaves
- View messaging status in real time
- Ethernet fiber options
- Easy configuration software

Vlinx™ MESR321 series Modbus Gateways connect Modbus devices to Ethernet networks and let you monitor and control your Modbus devices from anywhere on your Ethernet LAN or WAN. Supporting up to 16 masters and 32 slaves, the gateways feature auto-detecting SP 10/100 copper and/ or fiber optic options that include multi-mode LC and single-mode LC. The data ports are isolated from one another and also from the power supply.

The easy to use Vlinx software is compatible with Windows 2003 Server, XP, Vista, Win 7 and Windows Server 2008. It features Modbus messaging priority control and allows management through multiple TCP/IP client sessions. Serial data rates of up to 230 kbps ensure maximum network flexibility.

Featuring a slim IP30 DIN rail mountable case, MESR321 series gateways are built for use in industrial environments. They can be powered via a barrel connector or a terminal block. (An external power supply is required; sold separately.) The MESR321 has an additional Ethernet port which functions much like an Ethernet Switch, allowing pass-through connectivity for other Ethernet devices. This port can also be used to "daisy chain" multiple gateways.

ORDERING INFORMATION

MODEL NUMBER	SERIAL PORT WITH DB9 AND TERMINAL BLOCK	ETHERNET PORTS	FIBER PORTS
MESR321	1	2 (RJ45)	0
MESR321-ML	1	1 (RJ45)	1 LC multi-mode optical
MESR321-SL	1	1 (RJ45)	1 LC single-mode optical

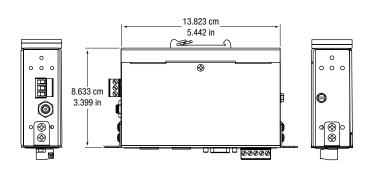
ACCESSORIES

C5UMB7FBG - Category 5e, 7 ft. (2.1 m), Grey cable

PS12VLB-INT-MED - Power Supply 12Vdc, Medical Grade - US, EU, UK

MDR-40-24 - DIN rail mount power supply 24VDC, 1.7 A output power

MECHANICAL DIAGRAM



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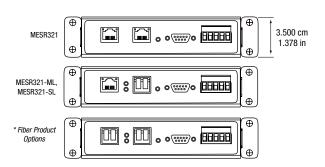
SPECIFICATIONS

SPECIFICATION	ONS
PORT TO PORT ISOLATION	ON
Serial to Ethernet	2 kV
Serial to Power	2 kV
Ethernet to Power	1.5 kV
POWER	
Source	External
Input Voltage	10 to 48 VDC (58 VDC Maximum)
Connector	Removable Terminal Block (12 – 28 AWG and barrel connector
Power Consumption	4 W
MECHANICAL	
LED Indicators Switches	Ready, Power, Serial Data, Ethernet Speed, Ethernet Link Reset Button (Mode)
Dimensions	13.823 x 8.633 x 3.500 cm (5.442 x 3.399 x 1.378 in)
Enclosure	IP 30, Metal
WEIGHT	635 G (1.4 LBS)
ENVIRONMENTAL	
Operating Temperature	-40 to 80°C (-40 to 176°F)
Operating Humidity	10 to 95% Non-condensing
Storage Temperature	-40 to 85°C
MTBF	86,882 hours
MTBF Calc Method	Based on MIL 217F using Parts Count Reliability Prediction
NETWORK	
Serial Memory	8 KB per port
Network Memory	8 KB
IP Port Addresses	Setting in TCP Mode (paired mode) 8899 – MESR321x Update
LAN	10/100 Mbps Auto-detecting, 10BaseT or 100BaseTX
Ethernet	IEEE 802.3 auto detecting & auto MDI/MDX, 10BaseT and 100Base TX
PROTOCOLS	
Protocols	TCP, IPv4, UDP, ARP, HTTP 1.0, ICMP/PING, DHCP/B00TP
IP Mode	Static, DHCP
TCP	User definable
OTHER	
Connection Mode	Modbus RTU Master/Slave, Modbus ASCII Master/Slave
Search	Serial direct COM and Ethernet Auto Search or specific IF
Jealen	•
Diagnostics	Display PC IP, ping, test VCOM, save test config (text readable)

SOFTWAR	E CONFIGURA	TION			
Vlinx Manager		bit), 200	in XP (32/64 bit), 2003 Server (32/64 bit), Vista (32/64 t), 2008 Server (32/64 bit), Win 7 (32/64 bit), Windows 108 Server		
ETHERNET	PASS-THROU	IGH POR	Т		
Standards		IEEE 80	IEEE 802.3, 802.3u, 802.3x		
Processing Type		Store and Forward with 802.3x full duplex, non blocking flow control			
Flow Contr	Flow Control		IEEE 802.3x flow control, back pressure flow control		
MAC Addre	MAC Address Table		2K		
SERIAL TE	CHNOLOGY				
RS-232		TD, RD, RTS, CTS, DTR, DSR, DTD, Signal Ground			
RS-485 2-	RS-485 2-Wire		Data A(-), Data B(+), Signal Ground		
RS-422/48	RS-422/485 4-Wire		TDA(-), TDB(+), RDA(-), RDB(+), Signal Ground		
Serial Con	nector	DB9M RS-232, Terminal Block Rs-422/485			
Data Rate		Up to 23	Up to 230.4 Kbps		
APPROVA	LS / CERTIFIC	ATIONS			
Emissions	FCC Class B,	CISPR CI	ass B (EN55022)		
CE	EN61000-6-2	2:2005	(Heavy Industrial)		
	EN61000-4-2	2:2008	(ESD)		
	EN61000-4-3		(RI)		
	EN61000-4-4	:2004	(EFT Burst)		
	EN61000-4-5		(Surge)		
	EN61000-4-6	3:2005	(CI)		
	EN61000-4-8	3:2001	(Magnetic)		
Shock	IEC60068-2-2	27	50G peak, 11ms, 3 axes		
Vibration	tion IEC60068-2-6		10-500Hz, 4G, 3 axes		
Freefall (Drop)	IEC60068-2-3	32	10 total drops from sides, corner and edges, 1M		

FIBER OPTIC SPECIFICATIONS

MODE AND DISTANCE	WAVELENGTH	OUTPUT POWER	RECEIVE SENSITIVITY
Multi-mode (2 km)	1310 nm	-23 to -14 dBm	= -31 dBm</td
Single-mode (15 km)	1310 nm	15 to -8 dBm	= -34 dBm</td
Single-mode (40 km)	1310 nm	-5 to 0 dBm	= -35 dBm</td
Single-mode (80 km)	1550 nm	-5 to 0 dBm	= -34 dBm</td



* Full Fiber Product Options

These options are possible for large projects:

- Models with 2 fiber optic ports
- Models with long-range fiber optic ports such as 40km and 80km single-mode

Contact B&B Electronics for more information.