



AVCOMM®

SEVR-M2

Datasheet

Aiming to create better and safer working environments and life experiences through the products we deliver.



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SEVR-M2 device server provides serial port to Ethernet port function. It converts RS-232/485/422 port to TCP/IP port, allows bidirectional data transmission between RS-232/485/422&TCP/IP. This makes the serial device support TCP/IP function. It supports IEEE 802.3AF standard, the POE function greatly extend the communication of serial devices.



Product Features

- Processor: 150MHz
- Storage: Data cache space ≥ 60KB per port
- Network port: RJ45 interface 10/100M (embedded 2KV electromagnetic isolation, surge 10/700us common mode: 2000V/differential mode 1000V) Adaptive MDI/MDI-X
- POE standard: Support IEEE802.3AF standard
- Network protocols: IP, ICMP, UDP, TCP, HTTP, TELNET, DNS, DHCP
- System support: Windows /XP/2003/win7/win8/win10 32/64bit
- Operation modes: VCOM, TCP SERVER, TCP CLIENT, UDP, Serial Telnet Mode , Remote Pair mode, RFC 2217, Modbus TCP server, Modbus TCP client
- Operating current: 350mA@12V max
- Power connector: 5.08mm 3Pin terminal block and DC socket
- Operating temperature: -40 ~ +85°C
- Storage temperature: -40 ~ +85°C
- Relative Humidity: 5% ~ 95%RH, Non-condensation
- Number of hosts: 4 hosts can be connected simultaneously
- Configuration method: Web browser, VCOM Utility, Telnet
- Number of serial ports: 2, RJ-45 connector Serial port protection: RS-232/485/422 surge 10/700us common mode/differential mode 0.5KV
- Baud rate: 300-921600bps
- Check bits: None, Odd, Even, Mark, Space
- Data bits: 7, 8
- Stop bits: 1, 1.5, 2
- Flow Control: RTS/CTS, XON/XOFF
- Supply voltage: 5V (4.75~5.25V), 12-36VDC, 12-60VDC, POE power supply optional, surge 1.2/50us common mode:2000V/differential mode 1000V
- ESD protection: 6KV for whole machine contact, 8KV for air

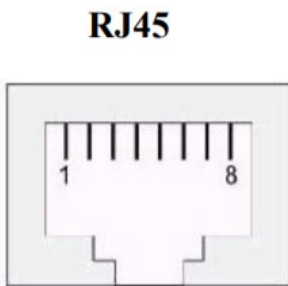
Ordering Information

Model	Signal/Port		Port Qty		Protection			Baud rate
	TCP/IP	RS-232/485/422	TCP/IP	RS-232/485/422	Power	TCP/IP	RS-232/485/422	
SEVR-M1	RJ45	RJ45	1	2	2KV	2KV	Common/differential mode 0.5KV	300-921.6K

Technology	
Processor	32bit 400MHZ
Storage	128M
Ethernet interface	10/100M(Built-in 1.5KV electromagnetic isolation) auto MDI/MDI-X Ethernet interface, interface RJ45
Serial Standard	RS-232, RS-485, RS-422
Serial Connector	2×RJ45
Indicator light	Power indicator light PWR, Running indicator light RUN
Power connector	DC-005 DC socket or 3Pin 5.08 terminal for power supply, with built-in protection against reverse connection, to avoid damage to the equipment by wrong positive and negative connection
Power range	DC12~48V
Function buttons	1 factory reset button RESET
Max. power consumption	1.6W
Enclosure Material	Metal
Ingress Protection	IP30
Operating environment	Storage temperature: -40~85° C Operating temperature: -40~85° C Relative humidity: 5 ~95% (Non-condensation)
Dimension	100mm×80.8mm×30mm (L x W x H)
Weight	350g
Software	
Operating System	Based on Linux
Protocol support	ARP,IP,ICMP,UDP,TCP,HTTP,DHCP,SNMP,MQTT,MODBUS
Configuration method	Web browser, VCOM Utility (Virtual COM Only Windows)
Operating Mode	VCOM, MCP, TCP Server, TCP Client, UDP, Remote Pair Mode, Modbus TCP Server, Modbus TCP Client, MQTT
Baud rate	300-921,600bps
Data Bits	5,6,7,8
Stop Bits	1,2
Check Bits	None, Odd, Even
Flow Control	RTS/CTS,DTR/DSR,XON/XOFF (Only RS-232)
Product Certification	
EMC	55032/24
EMI	Class A
EMS	IEC61000-4-2 ESD: Contact 4kV,Air 8kV IEC61000-4-3 RS: 80MHz-1GHz 3V/m IEC61000-4-4 EFT: Power 1kV,Signal 0.5kV IEC61000-4-5 Surge: Power differential mode 1KV, common mode 2KV (8/20) Ethernet ports differential mode 1KV, common mode 2KV (10/700) RS-232/485/422 differential mode 0.5KV, common mode 1KV IEC61000-4-6 CS: 150KHz-80MHz 3V/m

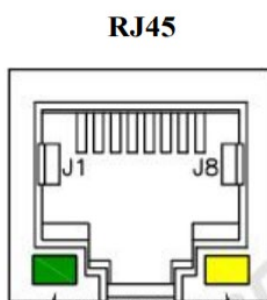
Pin definitions

1. SEVR-M2 Serial port pin definition



RJ45	RS-232	RS-485	RS-422
1	TxD	DATA+	TxD+
2	RxD	DATA+	TxD-
3	RTS		RxD+
4	CTS		RxD-
5	DSR		
6	GND	GND	GND
7	STR		
8			

2. SEVR-M2 Serial Server RJ45 Network Port Pin Definition

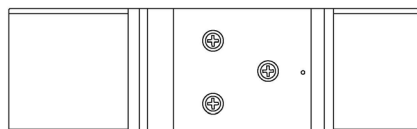


Green light for link
Yellow light for ACT

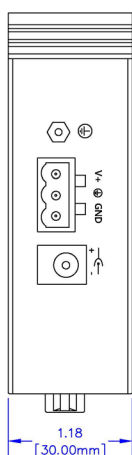
RJ45	EIA/TIA 568B	Definition	Description	EIA/TIA 568B
1	Orange&White	TX+	TxD+	TX+
2	Orange	TX-	TxD-	TX-
3	Green & White	RX+	RxD+	RX+
4	Blue	Data+	RxD-	Data+
5	Blue & White	Data-		Data-
6	Green	RX-	GND	RX-
7	Brown & white	Data+		Data+
8	Brown	Data-		Data-

Installation dimensions

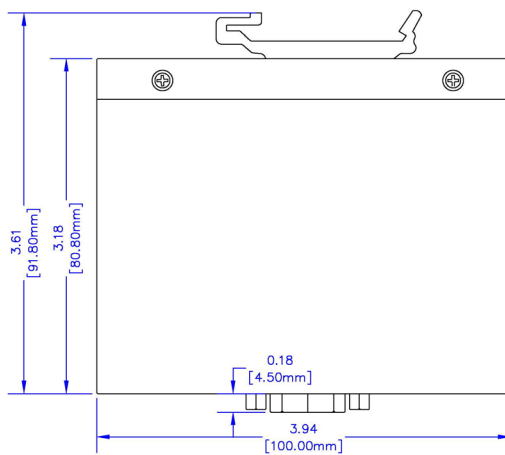
Unit: $\frac{\text{inch } \pm 0.040}{[\text{mm}] \pm 1.00}$



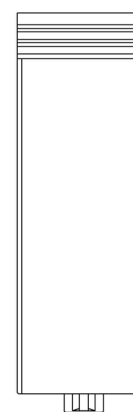
Rear view



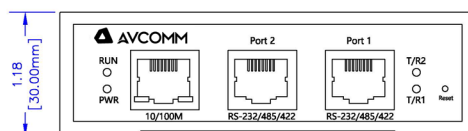
Left view



Top view



Right view



Front view