

# SEVR-M1 Datasheet

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



AVCOMM Technologies, Inc

www.avcomm.us

Email: info@avcomm.us

Phone: (713) 933-4534

Address: 333 West Loop North, Suite 460 Houston, TX 77024 United States

## AVCOMM

## SEVR-M1

SEVR-M1 device server provides serial port to Ethernet port function. It convertsRS-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, thePOE function greatly extend the communication of serial devices.



odbus







- 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

## Ordering Information

- Number of hosts: 4 hosts can be connected simultaneously
- Configuration method: Web browser, VCOM Utility, Telnet
- Number of serial ports: 1, DB9 connector and 3.81-4PIN terminal
- 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

MQTT

- Stop bits: 1, 1.5, 2
- Flow Control: RTS/CTS, XON/XOFF

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- 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

	Signal/Port		Port Qty		Protection			Baud
Model	TCP/IP	RS- 232/485/422	TCP/IP	RS- 232/485/ 422	Powe r	TCP/IP	RS- 232/485/4 22	rate
SEVR-M1	RJ45	RJ45	1	1	2KV	2KV	Common/di fferential mode 0.5KV	300- 921.6K

# SEVR-M1



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	1×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 $^\circ$ C Operating temperature: -40~85 $^\circ$ C Relative humidity: 5 ~95% (Non-condensation)		
Dimension	100mm×80.8mm×30mm (L x W x H)		
Weight	270g		
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		
ЕМІ	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		

SEVR-M1

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## **Pin definitions**

#### 1.SEVR-M1 RS-232 Pin Definitions

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DB9 male connector

RJ45	RS-232	
1	N/C	
2	RxD	
3	TxD	
4	N/C	
5	GND	
6	N/C	
7	RTS	
8	CTS	

2.SEVR-M1 Serial Server RS-485/422 Pin Definitions

3.81Terminals	RS-485	RS-422	Description
1	T/R+	TX+	Sending/Recei ving+
2	T/R-	TX-	Sending/Recei ving-
3		RX+	Receiving+
4		RX-	Receiving-



## SEVR-M1

#### 3.SEVR-M1 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+	Sending+	TX+
2	Orange	TX-	Sending-	TX-
3	Green & White	RX+	Receiving+	RX+
4	Blue	Data+	Bidirectional data+	Data+
5	Blue & White	Data-	Bidirectional data-	Data-
6	Green	RX-	Receiving-	RX-
7	Brown & white	Data+	Bidirectional data+	Data+
8	Brown	Data-	Bidirectional data-	Data-

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### Installation dimensions

