

UNIVERSAL COMMUNICATIONS MODULE with ETHERNET



- 1 IEEE 802.3 10/100 Mbit Base T port
- Full or Half Duplex
- Up to 4 independent serial I/O ports
- Over 60 different serial protocols
- Modbus/TCP/IP, Modbus Gateway Ethernet/IP
- Serial Port Tunneling
- On Demand Communication
- User configurable utilizing serial port of a personal computer or via Ethernet
- Master and Slave protocol emulations are user selectable for each port
- UL 121201 & CAN/CSA C22.2 No. 213-17, Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous Locations
- User definable operating Modes
 - Protocol Converter
 - Polling Master
 - Protocol Bridge
 - Data Concentrator

The MARC™ Model 266-P00 Omnii-Comm™ is a powerful microprocessor based communication module that conveniently mounts onto a standard DIN mounting rail. It is offered in both AC and DC powered versions with one Ethernet port and 2 to 4 serial communication ports. The Omnii-Comm™ can be configured to operate in many different modes. Each port can be independently configured to work with over 60 different communication protocols, in both master and slave configurations. The serial ports are jumper configurable for RS232, RS422 or RS485 operation. The Ethernet port provides Modbus/TCP, Modbus/TCP Gateway, Ethernet/IP and Serial Port Tunneling communication capability over standard networks.



Specifications

Physical

DIN rail mountable unit 1.75"W x 5.5"H x 5.75"D
1 pound, 2 oz

Power Requirements

AC power 90 to 264 VAC 10 Watt*
DC power 24 VDC 250 ma*
* maximum operating power for a 5-port unit

Operating Environment

0° to 60° Celsius, 10% to 90% relative humidity

LED Indicators

TXD and RXD for each asynchronous serial port. Network Status
Network Activity
ERROR
ACTIVE

Serial Protocols Supported (partial list)

MODBUS Master and Slave, RTU and ASCII
Teledyne/Control Applications (CA),
Allen-Bradley DF1 Full-Duplex and Half-Duplex
Square D SY/MAX
GE SNP
Omron Host Link
Caterpillar CCM and DVR
L&N Conitel
CDC Type II
Danload 6000
Sullair
Veeder-Root
ASCII

Ethernet Protocols Supported

Modbus/TCP Server
Modbus/TCP Gateway
Ethernet/IP Server
Serial Port Tunneling

Communication Ports

Maximum of 4 asynchronous serial data ports
1 Universal Serial Data Port, sync.or async.
300 to 9600 baud (in place of one async port)
1 Config/Diagnostic port (always required)
4 ports have modem control lines RTS, CTS,
DCD, DTR and DSR,
1 IEEE 802.3 compliant 10/100 Base T Ethernet
port Full or Half Duplex (Auto Sensing)

Serial Port Connections

TERM	9-PIN	RS232	RS422	RS485
1	1	DCD (I)	TX+	TRD+
2	6	DSR (I)	RX+	TRD+
3	2	RXD (I)	TX-	TRD-
4	7	RTS (O)	RX-	TRD-
5	3	TXD (O)	TX+	TRD+
6	8	CTS (I)	RX+	TRD+
7	4	DTR (O)	TX-	TRD-
8	9	RI (I)	RX-	TRD-
9	5	GND	GND	GND

Identical signal names are connected internally

Ethernet Connector

RJ45

IP Address and Subnet Mask Assignment

Fixed or by DHCP (user selectable)

Order Information

266-300-XYE 2 serial ports, 1 Ethernet port
266-400-XYE 3 serial ports, 1 Ethernet port
266-500-XYE 4 serial ports, 1 Ethernet port
X=1 for AC, 2 for 24VDC 250 ma*

Y=1 for 9-Pin "D" connectors, 2 for pluggable
Terminal strips

E=Ethernet port G = Gateway

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