

## **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
- 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 270 VAC 1 Watt\*  
DC power 24 VDC 40 ma\*  
DC power 12 VDC 80 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

TER M	9- PIN	RS232	RS42 2	RS48 5
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 or 3 for 12 VDC  
Y=1 for 9-Pin "D" connectors, 2 for pluggable  
Terminal strips  
E=Ethernet port G = Gateway

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