



# Subnet16™ Hub with Four Industrial I/O HUB-04-TCP/IND-01

## FEATURES

Two models:

- HUB-01-TCP-01

Commercial Ethernet (TCP/IP)

- HUB-01-IND-01

Industrial Ethernet

(Ethernet/IP, Modbus TCP)

4-Subnet16™ ports

4-Digital inputs

4-Digital outputs

Automatic node assignment

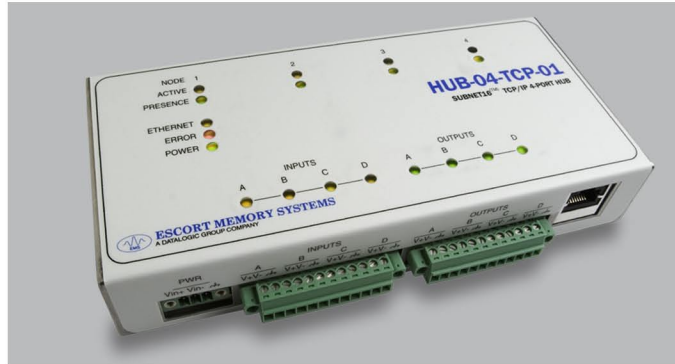
Automatic controller  
configuration

Monitors node status and  
Subnet16™ activity

Power distributed over  
Subnet16™ Network

## FOR USE WITH

Cobalt HF™ Series  
controllers/antennas



Integrating RFID data into any Ethernet host including industrial Ethernet IP and Modbus TCP PLC's; the Hub communicates with up to four controllers on a Subnet 16™ network. The unique combination of microprocessor control, C-Macro™ commands and local I/O allows intelligence to be driven down to the RFID hardware level. Integrators and end users can reduce their network traffic by building in intelligence at the RFID controller level eliminating unnecessary network traffic between reader and host.

Each Hub is assigned a unique network address and automatically assigns the individual reader/controllers node addresses. Power supplied to the Hub is automatically distributed to the controllers on the network eliminating the need for individual power supplies for each controller.

Each controller and Hub is microprocessor controlled allowing sophisticated features like plug'n'play addition and replacement of controllers from the network. The same microprocessor supports the creation of C-Macro™ on the C-Macro™ editor for each controller giving the integrator a unique and powerful tool for application building. Local functions such as light trees, fast response error detection and servo actuation can now be driven completely from the Hub without host communication delays.

The Hub features 20 LED's providing quick visual information on Hub operations including four inputs, four outputs, power, communications errors and node activity. The Hub is available in two different models; the HUB-01-TCP-01 supports Ethernet and the HUB-01-IND-01 supports industrial Ethernet standards including Ethernet IP and Modbus-TCP.

## SPECIFICATIONS

*Communications Interfaces*  
Output-Ethernet, Ethernet  
IP, Modbus TCP  
Input-Subnet16

*Data Transfer Rate*  
10/100mb Ethernet  
9600~115K Baud Subnet16

*I/O Rating*  
Input: 4.5VDC~30VDC, 25mA  
Maximum  
Output: 0~30VDC, 500mA  
Maximum

*Operating Temperature*  
0° to 50°C (32° to 122°F)

*Storage Temperature*  
- 20° to 70°C (-4° to 158°F)

*Vibration Resistance*  
IEC 68-2-6 Vibration sine

*Shock Resistance*  
IEC 68-2-27 Shock

*Humidity*  
90% Non-Condensing

*Dimensions*  
18.5cm x 8.9cm x 3.2cm

*Weight*  
.48 KG (1.05LBS)

*Enclosure Protection Class*  
IP31  
Stainless Steel 304 (18-8)

*Voltage Rating*  
20-30 VDC

*Power Rating*  
24VDC, 250mA

*Connector*  
5-pin

*LED Status Indicators*  
21 LEDs indicating power, bus,  
error, tag/controller/I/O  
presence

**RFID AT  
WORK™**



# Subnet16™ Hub with Four Industrial I/O

## HUB-04-TCP/IND-01

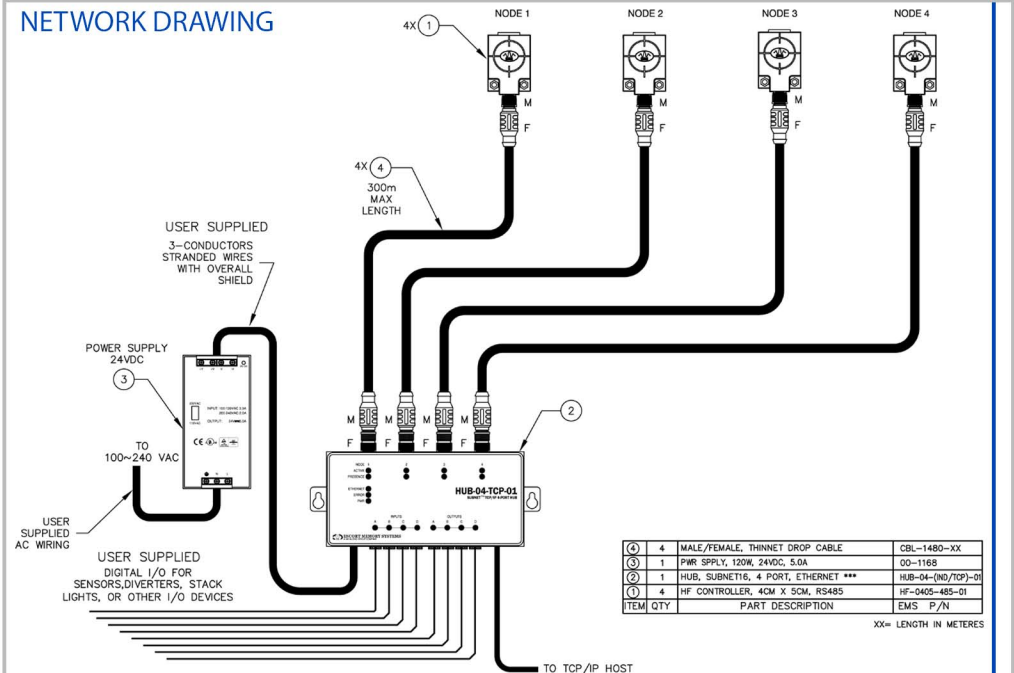
### APPLICATIONS

Material Handling  
Work-in-Progress  
Monitoring  
Quality Control

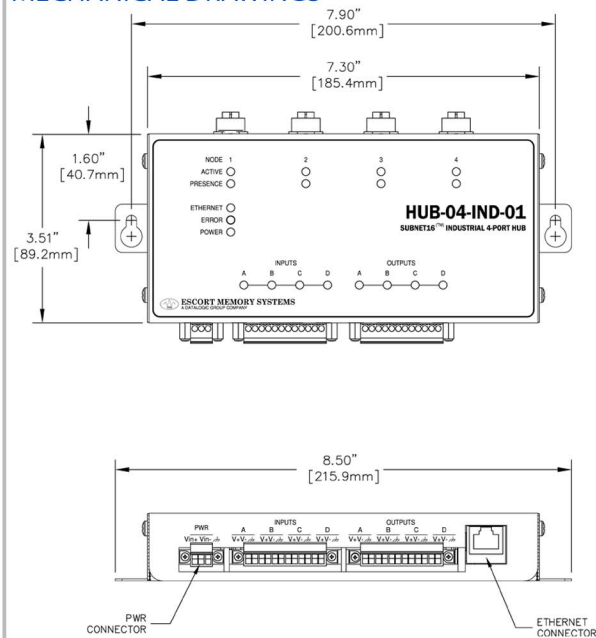
### ACCESSORIES

Cables and Power Supplies  
See product manuals  
available on our website:  
[www.ems-rfid.com](http://www.ems-rfid.com)

### NETWORK DRAWING



### MECHANICAL DRAWINGS



**RFID AT**  
**WORK™**