

# GENERAL SPECIFICATIONS

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# APPENDIX

# A

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# General Specifications

## ECOM Specifications

H0-ECOM	
<b>Module Type</b>	Intelligent Data Communications Module
<b>Quantity of Modules Per Base</b>	Defined by CPU and base configuration
<b>Diagnostics</b>	LEDs/Network Monitoring Software (NetEdit3)
<b>Communications</b>	10BaseT Ethernet
<b>Data Transfer</b>	10 Million bits per second
<b>Extension Port</b>	RJ45
<b>OK Indicator (OK)</b>	Green LED
<b>Link Good Indicator (LINK)</b>	Green LED
<b>Activity Indicator (ACT)</b>	Red LED
<b>Error Indicator (ERR)</b>	Red LED
<b>Power Consumption</b>	250mA (Supplied by DL05/DL06 base)
<b>Operating Temperature</b>	32° to 140° F (0° to 60° C)
<b>Storage Temperature</b>	-4° to 158° F (-20° to 70° C)
<b>Relative Humidity</b>	30% - 95% RH (non-condensing)
<b>Environmental Air</b>	No corrosive gases permitted
<b>Networking Protocols Supported</b>	TCP/IP, IPX
<b>Manufacturer</b>	Host Automation Products
<b>Link Distance</b>	100 meters (328 feet)

H2-ECOM/H4-ECOM	
<b>Module Type</b>	Intelligent Data Communications Module
<b>Quantity of Modules Per Base</b>	Defined by CPU and base configuration
<b>Diagnostics</b>	LEDs/Network Monitoring Software (NetEdit3)
<b>Communications</b>	10BaseT Ethernet
<b>Data Transfer</b>	10 Million bits per second
<b>Extension Port</b>	RJ45
<b>OK Indicator (OK)</b>	Green LED
<b>Link Good Indicator (LINKGD)</b>	Green LED
<b>Activity Indicator (ACT)</b>	Red LED
<b>Error Indicator (ERROR)</b>	Red LED
<b>Power Consumption</b>	H2: 450mA; H4: 530mA (Supplied by base)
<b>Operating Temperature</b>	32° to 140° F (0° to 60° C)
<b>Storage Temperature</b>	-4° to 158° F (-20° to 70° C)
<b>Relative Humidity</b>	30% - 95% RH (non-condensing)
<b>Environmental Air</b>	No corrosive gases permitted
<b>Networking Protocols Supported</b>	TCP/IP, IPX
<b>Manufacturer</b>	Host Automation Products
<b>Link Distance</b>	100 meters (328 feet)

A

H0-ECOM100	
<b>Module Type</b>	Intelligent Data Communications Module
<b>Quantity of Modules Per Base</b>	Defined by CPU and base configuration
<b>Diagnostics</b>	LEDs/Network Monitoring Software (NetEdit3)
<b>Communications</b>	10/100BaseT Ethernet
<b>Data Transfer</b>	100 Million bits per second
<b>Extension Port</b>	RJ45
<b>Link Good Indicator (LINK)</b>	Green LED
<b>Activity Indicator (ACT)</b>	Green LED
<b>Error Indicator (ERR)</b>	Red LED
<b>100MB Transfer Rate (100M)</b>	Green LED
<b>Power Consumption</b>	300mA (Supplied by DL05/DL06 base)
<b>Operating Temperature</b>	32° to 140° F (0° to 60° C)
<b>Storage Temperature</b>	-4° to 158° F (-20° to 70° C)
<b>Relative Humidity</b>	30% – 95% RH (non-condensing)
<b>Environmental Air</b>	No corrosive gases permitted
<b>Networking Protocols Supported</b>	TCP/IP, IPX, Modbus TCP, DHCP, HTML Configuration
<b>Manufacturer</b>	Host Automation Products
<b>Link Distance</b>	100 meters (328 feet)

H2-ECOM100/H4-ECOM100	
<b>Module Type</b>	Intelligent Data Communications Module
<b>Quantity of Modules Per Base</b>	Defined by CPU and base configuration
<b>Diagnostics</b>	LEDs/Network Monitoring Software (NetEdit3)
<b>Communications</b>	10/100BaseT Ethernet
<b>Data Transfer</b>	100 Million bits per second
<b>Extension Port</b>	RJ45
<b>Status Indicator (STATUS) (H2-ECOM100 only)</b>	Green LED
<b>Link Good Indicator (LINKGD)</b>	Green LED
<b>Activity Indicator (ACTIVE)</b>	Green LED
<b>Error Indicator (ERROR)</b>	Red LED
<b>100MB Transfer Rate (100MBIT)</b>	Green LED
<b>Power Consumption</b>	300mA (Supplied by DL base)
<b>Operating Temperature</b>	32° to 140° F (0° to 60° C)
<b>Storage Temperature</b>	-4° to 158° F (-20° to 70° C)
<b>Relative Humidity</b>	30% – 95% RH (non-condensing)
<b>Environmental Air</b>	No corrosive gases permitted
<b>Networking Protocols Supported</b>	TCP/IP, IPX, Modbus TCP, DHCP, HTML Configuration
<b>Manufacturer</b>	Host Automation Products
<b>Link Distance</b>	100 meters (328 feet)

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H2-ECOM-F/H4-ECOM-F	
<b>Module Type</b>	Intelligent Data Communications Module
<b>Quantity of Modules Per Base</b>	Defined by CPU and base configuration
<b>Diagnostics</b>	LEDs/Network Monitoring Software (NetEdit3)
<b>Communications</b>	10BaseFL Ethernet (fiber optic)
<b>Data Transfer</b>	10 Million bits per second
<b>Extension Port</b>	ST-Style fiber optic connector
<b>Link Good Indicator (LINKGD)</b>	Green LED
<b>Activity Indicator (ACT)</b>	Red LED
<b>Error Indicator (ERROR)</b>	Red LED
<b>Power Consumption</b>	H2: 640mA; H4: 670mA (Supplied by base)
<b>Operating Temperature</b>	32° to 140° F (0° to 60° C)
<b>Storage Temperature</b>	-4° to 158° F (-20° to 70° C)
<b>Relative Humidity</b>	30% – 95% RH (non-condensing)
<b>Environmental Air</b>	No corrosive gases permitted
<b>Networking Protocols Supported</b>	TCP/IP, IPX
<b>Manufacturer</b>	Host Automation Products
<b>Link Distance</b>	Up to 2000 meters (2km), 6560ft (1.2 miles)

## Ethernet Standards

Various institutes and committees have been involved in establishing Ethernet data communication standards. These specification standards assure Ethernet network compatibility for products from a broad variety of manufacturers.

The ECOM module complies with American National Standards Institute (ANSI) and Institute of Electrical and Electronic Engineers standard ANSI/IEEE 802.3, Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Methods and Physical Layer Specifications. This standard has been adopted by the International Organization for Standardization (ISO) as document ISO/IEC 8802-3.

The Electronic Industries Association (EIA) and Telecommunications Industries Commercial Building Telecommunications Wiring Standard designated EIA/TIA-568A defines implementation of 10BaseT (twisted pair) and 10BaseF (fiber optics) for Ethernet communications.

The same two organizations produced EIA/TIA TSB40- Additional Transmission Specifications for Unshielded Twisted-Pair Connecting Hardware. The purpose of this document is to specify transmission performance requirements and connecting hardware requirements.