General Specifications

In This Chapter...

General Specifications

ECOM Specifications

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

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

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

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

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