ACCESSORIES

In This Chapter...

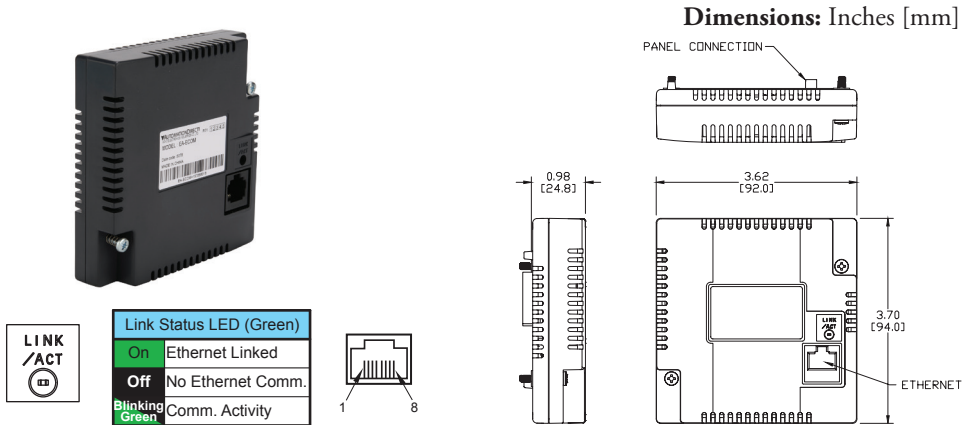# Accessories Overview

3
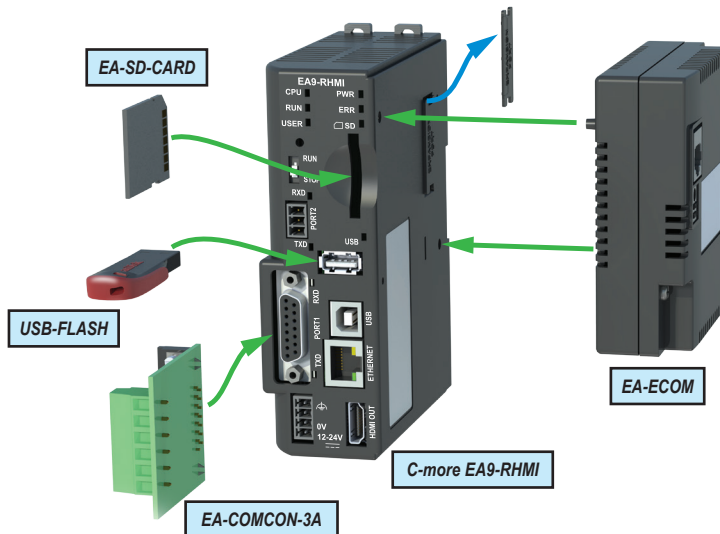
Part Number	Description
EA-ECOM	Ethernet communication expansion module, (1) RJ45 10/100 Mbps Ethernet port.
EA-SD-CARD	SD memory card for non-volatile storage, 2GB industrial grade. 85°C maximum operating temperature makes it suitable for data logging in industrial applications.
USB-FLASH	USB Flash drive, SanDisk, 32GB
EA-COMCON-3A	DSUB port adapter, 15-pin male to 6-pole RS-422/485 terminal block, straight cable entry

EA-ECOM Ethernet Communication Module

The EA-ECOM Ethernet Communication module plugs into the expansion port on the *C-more* EA9-RHMI to allow a second Ethernet communication port for programming and PLC communications at a speed of 10/100 Mbps.

EA-ECOM

3

Dimensions: Inches [mm]

PANEL CONNECTION

0.98 [24.8]

3.62 [92.0]

3.70 [94.0]

ETHERNET

Link Status LED (Green)	
On	Ethernet Linked
Off	No Ethernet Comm.
Blinking Green	Comm. Activity

1   8

EA-ECOM Specifications	
Part Number	EA-ECOM
Operating Temperature	0 to 50°C (32 to 122°F) Maximum surrounding air temperature rating: 50°C
Storage Temperature	–20 to +60°C (–4 to +140°F)
Humidity	5–95% RH (non-condensing)
Environmental Air	For use in pollution degree 2 environment
Vibration	IEC60068-2-6 (Test Fc), 5-9 Hz: 3.5 mm amplitude, 9-150 Hz: 1.0 G, sweeping, at a rate of 1 octave/min. (±10%), 10 sweep cycles per axis on each of 3 mutually perpendicular axes
Shock	IEC60068-2-27 (Test Ea), 15G peak, 11ms duration, three shocks in each direction per axis, on 3 mutually perpendicular axes (total of 18 shocks)
Noise Immunity	NEMA ICS3-304 RFI, (145MHz, 440MHz 10W @ 10cm) Impulse 1000V @ 1μs pulse
Emission	EN55011 Class A (Radiated RF emission)
Agency Approvals	CE (EN61131-2), UL508, CUL Canadian C22.2 To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page
Mounting Torque	50 oz·in [0.35 N·m]
Weight	0.23 lb [105g]
Ethernet Specification	Conforms to IEEE802.3
Communication Speed	10/100 Base-T (Automatic Negotiation)
Cable Specification	Category 5
Auto MDI / MDI-X	Yes
Connector Type	RJ45

D-SUB 15-pin to Terminal Block Adapter

The EA-COMCON-3A adapter is plugged into the 15-pin serial port on the front of the EA9-RHMI to allow wire terminal connections for RS-422/485 PLC communication cables.
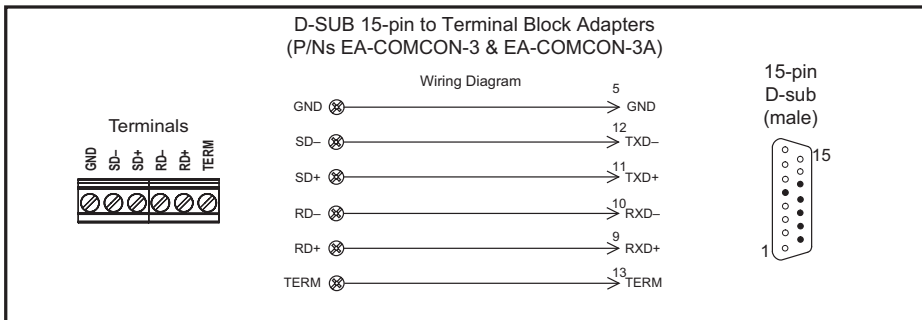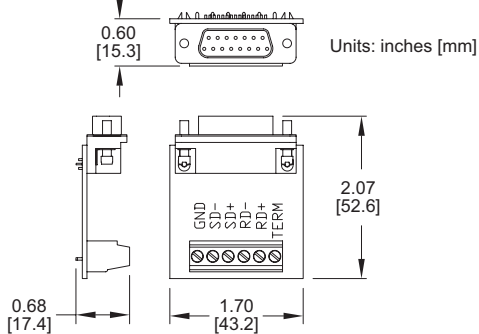
EA-COMCON-3A is NOT UL Recognized or Listed.

EA-COMCON-3A

Dimensions
inches [mm]

Units: inches [mm]

0.60 [15.3]

2.07 [52.6]

0.68 [17.4]

1.70 [43.2]

GND SD– SD+ RD– RD+ TERM

D-SUB 15-pin to Terminal Block Adapters
(P/Ns EA-COMCON-3 & EA-COMCON-3A)

Wiring Diagram

15-pin D-sub (male)

Terminals

GND SD– SD+ RD– RD+ TERM

Terminal		Pin	Signal
GND		5	GND
SD–		12	TXD–
SD+		11	TXD+
RD–		10	RXD–
RD+		9	RXD+
TERM		13	TERM

SD Card

SD memory card for non-volatile storage, 2GB industrial grade. 85° C maximum operating temperature makes it suitable for data logging in industrial applications. Recommended for *C-more* EA9 series. The EA-SD-CARD utilizes SLC technology so it is the fastest option for writing and storing data. If logged data is saved to external memory, AutomationDirect recommends using an EA-SD-CARD.

EA-SD-CARD

NOTE: SLC Flash memory utilized by EA-SD-CARD has the advantage of being the most accurate flash memory type when reading and writing data. SLC flash has the longest lifespan of flash types and can operate in a broader temperature range than other types.

EA-SD-CARD with SLC Flash memory is recommended for industrial workloads that require heavy read/write cycles.

USB FLASH Drive

USB-FLASH sold by AutomationDirect has been tested with *C-more* HMIs and is Hi-Speed USB 2.0 certified. The EA-SD-CARD is the best option for logging data, but the USB-FLASH is a high quality flash drive perfect for transferring log files, capturing screens, backing up and restoring projects and storing images for the Image Viewer object.

USB-FLASH