Model	6" TFT color	6" TFT color	7" TFT color	7" TFT color	
Specification	w/ base features	w/ full features	w/ base features	w/ full features	
Part Number	<u>EA9-T6CL-R</u>	EA9-T6CL	EA9-T7CL-R	EA9-T7CL	
Price	\$799.00	\$1,003.00	\$688.00	Retired	
Display Actual Size and Type	5.7" TFT color		7.0" TFT color		
Display Viewing Area	4.54" x 3.40" [115.2 mm x 86.4 mm]		6.00" x 3.60" [152.4 mm x 91.4 mm]		
Weight	1.56 lb [710g]	1.59 lb [720g]	1.46 lb [660g]	1.48 lb [670g]	
Screen Pixel	320 x 240 (QVGA)		800 x 480 (WVGA)		
Display Brightness		ts (typ)	350 nits (typ)		
LCD Panel Dot Pitch	0.18 mm	x 0.18 mm	0.190 mm x 0.190 mm		
Color Scale		65,536			
Backlight Average Lifetime*		50,000 hou			
Touch Panel Type**		Four-wire analog re	_		
Project Memory	26	MB		MB	
Number of Screens		Up to 999 screens – lim			
Realtime Clock		Realtime clock built into panel,	backed up for 30 days at 25°C		
Calendar		Yes - monthly deviation	on 60sec (Reference)		
Serial Port 1	15-pin D-sub female – RS232C, RS-422/485				
Serial Port 2				3-wire terminal block – RS-485	
Serial Port 3	N/A	RJ-12 modular jack – RS-232C	N/A	RJ-12 modular jack – RS-232C	
USB Port – Type B		,			
USB Port – Type A	USB 2.0 High speed (480 Mbps) Type B – Download/Program – Max. cable length 15-feet USB 2.0 High speed (480 Mbps) Type A – for USB device options – Max. cable length 15-feet – Bus Power – Less than 200mA at 5VDC				
Ethernet Port	N/A 10/100 Base-T, auto MDI/MDI-X			2000 than 20011/1 tat 0 v 20	
Ethernet Port -					
Expansion Module	N/A	EA-ECOM 3.5 mm mini jack – requires	N/A	EA-ECOM 3.5 mm mini jack – requires	
Audio Line Out	N/A	amplifier and speaker(s)	N/A	amplifier and speaker(s)	
Mic In (Future)	N/A	3.5 mm mini jack	N/A	3.5 mm mini jack	
SD Card Slot		1 slot supports max 2GB	· · /		
HDMI Video Out	N/A				
HDMI Supported Resolution	10.2.26.4.1/			Circuit (LEC)	
Supply Power	10.2-26.4 VDC Class 2 or SELV (Safety Extra-Low Voltage) Circuit or Limited Energy Circuit (LEC), or use the AC/DC Power Adapter, <u>EA-AC</u> , to power the touch panel from a 100-240 VAC, 50/60 Hz power source. Reverse Polarity Protected				
Power Consumption	16.0 W 1.30 A @ 12VDC 0.66 A @ 24VDC				
Internal Fuse					
(non-replaceable)		4.0 A			
Altitude		Up to 2000m (6562ft)			
Operating Temperature	0 to 50°C (32 to 122°F) Maximum surrounding air temperature rating: 50°C (122°F) IEC 60068-2-14 (Test Nb, Thermal Shock)				
Storage Temperature	–20 to +60°C (–4 to +140°F) IEC 60068-2-1 (Test Ab, Cold) IEC 60068-2-2 (Test Bb, Dry Heat) IEC 60068-2-14 (Test Na, Thermal Shock)				
Humidity	5-95% RH (non-condensing)			,	
Environment		For use in Pollution Degree 2 enviro	3 7		
	(EN61131-2), EN61000-4-2 (ESD), EN61000-4-3 (RFI), EN61000-4-4 (FTB), EN61000-4-5 (Serge), EN61000-4-6 (Conducted)				
Noise Immunity	EN61000-4-8 (Power frequency magnetic field immunity)				
,	(Local Test) RFI, (145MHz, 440Mhz 10W @ 10cm), Impulse 1000V @ 1µs pulse				
Withstand Voltage		1000VAC, 1min. (F			
Insulation Resistance	> 100 vAc, million (1 of to 1 ower supply)				
Vibration	IEC60068-2-6 (Test Fc)				
Shock	IEC60068-2-27 (Test Ea)				
Emission	EN55011 Class A (Radiated RF emission)				
Enclosure	NEMA 250 type 4/4X indoor use only UL50 type 4X indoor use only IP-65 indoor use only (When mounted correctly) NEMA 250 type 4/4X indoor use only UL50 type 4X indoor use only IP-65 (not tested by UL) (When mounted correctly)				
Agency Approvals	UL508, E157382, Class 1, Div 2, Groups A, B, C UL61010, E157382 CE (EN61131-2), RoHS (2011/65/EU) CE (EN61131-2), RoHS (2011/65/EU)				
	CUL Cana	dian C22.2	CUL Cana	dian C22.2	

*The backlight average lifetime is defined as the average usage time it takes before the brightness becomes 50% of the initial brightness. The lifetime of the backlight depends on the ambient temperature. The lifetime will decrease under low or high

temperature usage.
**The touchscreen is designed to respond to a single touch. If it is touched at multiple points at the same time, an unexpected object may be activated.

www.automationdirect.com

tCME-2

Model Specification	8" TFT color w/ full features	10" TFT color w/ full features	10" TFT color Widescreen w/ full features	
Part Number	EA9-T8CL	EA9-T10CL	EA9-T10WCL	
Price	\$1,524.00	\$1,718.00	\$1,096.00	
Display Actual Size and Type	8.4" TFT color	10.4" TFT color	10.1" TFT color	
Display Viewing Area	6.71" x 5.03"	8.31" x 6.24"	8.77" x 4.93"	
. , ,	[170.4 mm x127.8mm]	[211.2 mm x 158.4 mm]	[222.7 mm x 125.3 mm]	
Weight	2.93 lb [1330g]	4.19 lb [1900g]	2.43 lb [1100g]	
Screen Pixel	800 x 600 (SVGA)		1024 x 600 (WSVGA)	
Display Brightness	310 nits (typ)	280 nits (typ)	240 nits (typ)	
LCD Panel Dot Pitch	0.213 mm x 0.213 mm	0.264 mm x 0.264 mm	0.218 mm x 0.209 mm	
Color Scale	65,536 colors			
Backlight Average Lifetime*		50,000 hours @ 25°C		
Touch Panel Type**	Four-wire analog resistive, single touch			
Project Memory		43MB Up to 999 screens – limited by project memory		
Number of Screens	Doolli		+ 2E°C	
Realtime Clock	Realtime clock built into panel, backed up for 30 days at 25°C			
Calendar – Month / Day / Year Serial Port 1	Yes - monthly deviation 60sec (Reference)			
Serial Port 2	15-pin D-sub female – RS232C, RS-422/485 3-wire terminal block – RS-485			
Serial Port 3	RJ-12 modular jack – RS-232C			
USB Port – Type B	USB 2.0 High speed (480 Mbps) Type B – Download/Program – Max. cable length 15-feet			
USB Port – Type A	USB 2.0 High speed (480 Mbps) Type A – for USB device options – Max. cable length 15-feet – Bus Power – Less than 200mA at 5VDC			
Ethernet Port	10/100 Base-T, auto MDI/MDI-X			
Ethernet Port -	*			
Expansion Module	<u>EA-ECOM</u>			
Audio Line Out	3.5 mm mini jack – requires amplifier and speaker(s)			
Mic In (Future)	3.5 mm mini jack			
SD Card Slot	1 slot supports max 2GB (SD,) max 32GB (SDHC)			
HDMI Video Out	N/A			
Supply Power	10.2-26.4 VDC Class 2, Use Class2 and SELV (Safety Extra-Low Voltage) Circuit and Limited Energy Circuit (LEC), or use the AC/DC Power Adapter, <u>EA-AC</u> , to power the touch panel from a 100-240 VAC, 50/60 Hz power source. Reverse Polarity Protected 18.0 W 17.0W			
Power Consumption	1.50 A @	18.0 W 1.50 A @ 12VDC 0.75 A @ 24VDC		
Internal Fuse (non-replaceable)	6.3 A			
Altitude	Up to 2000m (6562ft)			
Operating Temperature	0 to 50°C (32 to 122°F) Maximum surrounding air temperature rating: 50°C (122°F) IEC 60068-2-14 (Test Nb, Thermal Shock)			
Storage Temperature	−20 to +60°C (−4 to +140°F) IEC 60068-2-1 (Test Ab, Cold) IEC 60068-2-2 (Test Bb, Dry Heat) IEC 60068-2-14 (Test Na, Thermal Shock)			
Humidity	5-95% RH (non-condensing)			
Environment		Pollution Degree 2 environment, no corrosive gase		
	(EN61131-2), EN61000-4-2 (ESD), EN61000-4-3 (RFI), EN61000-4-4 (FTB), EN61000-4-5 (Serge), EN61000-4-6 (Conducted) EN61000-4-8 (Power forequency magnetic field immunity)			
Noise Immunity	(Local Test)			
	RFI, (145MHz, 440Mhz 10W @ 10cm), Impulse 1000V @ 1µs pulse			
Withstand Voltage	1000VAC, 1min. (FG to Power supply)			
Insulation Resistance	> 10M ohm @ 500VDC (FG to Power supply)			
Vibration Shock	IEC60068-2-6 (Test Fc)			
Emission	IEC60068-2-27 (Test Ea) EN55011 Class A (Radiated RF emission)			
	NEMA 250 type 4/4X indoor use only UL50 type 4X indoor use only			
Enclosure	IP-65 indoor use only (When mounted correctly)			
Agency Approvals	UL508, E157382 CE (EN61131-2), RoHS (2011/65/EU) CUL Canadian C22.2			

NOTES: *The backlight average lifetime is defined as the average usage time it takes before the brightness becomes 50% of the initial brightness. The lifetime of the backlight depends on the ambient temperature. The lifetime will decrease under low or high temperature usage.

**The touchscreen is designed to respond to a single touch. If it is touched at multiple points at the same time, an unexpected object may be activated.

www.automationdirect.com Operator Interface tCME-3

Model Specification	12" TFT color w/ full features	15" TFT color w/ base features	15" TFT color w/ full features	
Part Number	EA9-T12CL	EA9-T15CL-R	EA9-T15CL	
Price	\$1,479.00	\$1,959.00	\$2,684.00	
Display Actual Size and Type	12.1" TFT color		FT color	
, ,	9.69" x 7.26" 11.97" x 8.98"			
Display Viewing Area	[246.0 mm x 184.5 mm] [304.1 mm x 228.0 mm]			
Weight	4.89 lb [2200g]	6.46 lb (2930g)	6.50 lb [2950g]	
Screen Pixel	800 x 600 (SVGA)	1024 x 70	68 (XGA)	
Display Brightness		280 nits (typ)		
LCD Panel Dot Pitch	0.3075 mm x 0.3075 mm	0.297 mm :	x 0.297 mm	
Color Scale	65,536 colors			
Backlight Average Lifetime*	50,000 hours @ 25°C			
Touch Panel Type**	Four-wire analog resistive, single touch			
Project Memory	43MB			
Number of Screens	Up to 999 screens – limited by project memory			
Realtime Clock	Realt	ime clock built into panel, backed up for 30 days at	25°C	
Calendar – Month / Day / Year		Yes - monthly deviation 60sec (Reference)		
Serial Port 1	15-pin D-sub female – RS232C, RS-422/485			
Serial Port 2	3-wire terminal block – RS-485	N/A	3-wire terminal block – RS-485	
Serial Port 3	RJ-12 modular jack – RS-232C	N/A	RJ-12 modular jack – RS-232C	
USB Port – Type B	USB 2.0 High spee	d (480 Mbps) Type B – Download/Program – Max.	cable length 15-feet	
USB Port - Type A	USB 2.0 High speed (480 Mbps) Type A – for USB device options – Max. cable length 15-feet – Bus Power – Less than 200mA at 5VDC			
Ethernet Port	10/100 Base-T, auto MDI/MDI-X			
Ethernet Port - Expansion Module	EA-ECOM	N/A	EA-ECOM	
Audio Line Out	3.5 mm mini jack – requires amplifier and speaker(s)	N/A	3.5 mm mini jack – requires amplifier and speaker(s)	
Mic In (Future)	3.5 mm mini jack	N/A	3.5 mm mini jack	
SD Card Slot		2 slots support max 2GB (SD), max 32GB (SDHC)		
HDMI Video Out	HDMI Type A Port	N/A	HDMI Type A Port	
HDMI Supported Resolution	800 x 600 (SVGA)	N/A	1024 x 768 (XGA)	
Supply Power	10.2-26.4 VDC Class 2, Use Class2 and SELV (Safety Extra-Low Voltage) Circuit and Limited Energy Circuit (LEC), or use the AC/DC Power Adapter, EA-AC, to power the touch panel from a 100-240 VAC, 50/60 Hz power source. Reverse Polarity Protected			
Power Consumption	21.0 W 29.0 W 1.75 A @ 12VDC 2.40 A @ 12VDC 0.88 A @ 24VDC 1.20 A @ 24VDC) 12VDC	
Internal Fuse (non-replaceable)		6.3 A		
Altitude	Up to 2000m (6562ft)			
Operating Temperature	0 to 50°C (32 to 122°F) Maximum surrounding air temperature rating: 50°C (122°F) IEC 60068-2-14 (Test Nb, Thermal Shock)			
Storage Temperature	−20 to +60°C (−4 to +140°F) IEC 60068-2-1 (Test Ab, Cold) IEC 60068-2-2 (Test Bb, Dry Heat) IEC 60068-2-14 (Test Na, Thermal Shock)			
Humidity	5-95% RH (non-condensing)			
Environment	For use in Pollution Degree 2 environment, no corrosive gases permitted			
Noise Immunity	(EN61131-2), EN61000-4-2 (ESD), EN61000-4-3 (RFI), EN61000-4-4 (FTB), EN61000-4-5 (Serge), EN61000-4-6 (Conducted) EN61000-4-8 (Power frequency magnetic field immunity) (Local Test) RFI, (145MHz, 440Mhz 10W @ 10cm), Impulse 1000V @ 1µs pulse			
Withstand Voltage	1000VAC, 1min. (FG to Power supply)			
Insulation Resistance	> 10M ohm @ 500VDC (FG to Power supply)			
Vibration	IEC60068-2-6 (Test Fc)			
Shock	IEC60068-2-27 (Test Ea)			
Emission	EN55011 Class A (Radiated RF emission)			
	NEMA 250 type 4/4X indoor use only UL50 type 4X indoor use only			
Enclosure		IP-65 indoor use only (When mounted correctly)		
Agency Approvals	UL508, E157382 CE (EN61131-2), RoHS (2011/65/EU) CUL Canadian C22.2			
NOTES: *The backlight average li	fetime is defined as the average usa		a basemas E00/ of the initial	

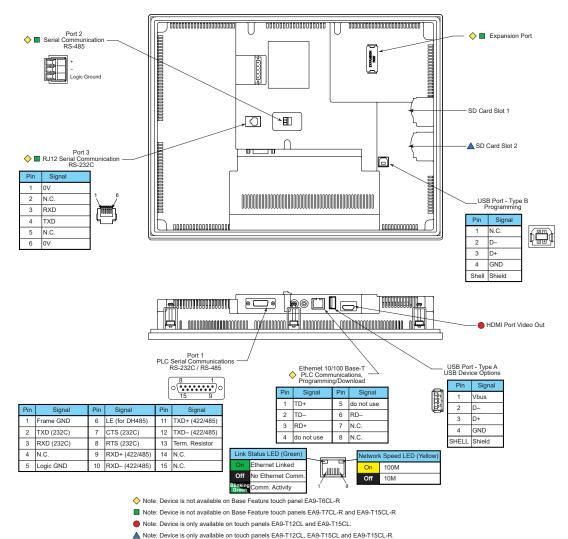
NOTES: *The backlight average lifetime is defined as the average usage time it takes before the brightness becomes 50% of the initial brightness. The lifetime of the backlight depends on the ambient temperature. The lifetime will decrease under low or high

**The touchscreen is designed to respond to a single touch. If it is touched at multiple points at the same time, an unexpected object may be activated.

Specification	EA9 Headless HMI	
Part Number	EA9-RHMI	
Price	\$560.00	
	VIII I	
Display	No Display	
Weight Project Manager	0.59 lb [269g] 82MB	
Project Memory		
Number of Screens	Up to 999 screens – limited by project memory	
Realtime Clock	Realtime clock built into panel, backed up for 30 days at 25°C	
Calendar – Month / Day / Year	Yes - monthly deviation 60sec (Reference)	
Serial Port 1	15-pin D-sub female – RS232C, RS-422/485	
Serial Port 2	3-wire terminal block – RS-485	
USB Port – Type B	USB 2.0 High speed (480 Mbps) Type B - Download/Program Max cable length - 15 ft. USB 2.0 High speed (480 Mbps) Type A - for USB device options	
USB Port – Type A	Max cable length - 15ft Bus Power – Less than 500mA at 5VDC	
Supported Touch Screen	ELO™ Single Touch Resistive/SAW, EETI eGalax Single Touch Resistive and pCap Compatible with AutomationDirect Atlas Monitors. See the EA-RHMI user manual for more compatible touchscreen monitors	
Ethernet Port	10/100 Base-T, auto MDI/MDI-X	
Ethernet Port - Expansion Module	<u>EA-ECOM</u>	
Audio Line Out	Audio supported through HDMI connection	
Mic In (Future)	N/A	
SD Card Slot	1 slot support max 2GB (SD), max 32GB (SDHC)	
HDMI Video Out	HDMI Type A Port	
HDMI Supported Resolutions	640 x 480 (VGA) 60Hz 720 x 480 (SD) 60Hz 1024 x 768 (XGA) 60Hz 1280 x 720 (HD) 60Hz With automatic negotiation function for HDMI displays	
Supply Power	10.2-26.4 VDC Class 2, Use Class2 and SELV (Safety Extra-Low Voltage) Circuit and Limited Energy Circuit (LEC), Reverse Polarity Protected	
Power Consumption	12.0 W 1.00 A @ 12VDC 0.50 A @ 24VDC	
Internal Fuse (non-replaceable)	4.0 A	
Altitude	Up to 2000m (6562ft)	
Operating Temperature	0 to 50°C (32 to 122 °F); Maximum surrounding air temperature rating: 50°C (122°F)	
Operating remperature	IEC 60068-2-14 (Test Nb, Thermal Shock)	
Storage Temperature	–20 to 60°C (–4 to 140°F) IEC 60068-2-1 (Test Ab, Cold) IEC 60068-2-2 (Test Bb, Dry Heat) IEC 60068-2-14 (Test Na, Thermal Shock)	
Humidity	5-95% RH (non-condensing)	
Environment	For use in Pollution Degree 2 environment, no corrosive gases permitted	
Noise Immunity	(EN61131-2) EN61000-4-2 (ESD): 4kV (Contact Discharge) 2kV/4kV/8kV (Air Discharge) EN61000-4-3 (RFI): 10V/m (80MHz-1GHz), 3V/m (1.4GHz-2.0GHz) 1V/m (2.0GHz-2.7GHz) EN61000-4-4 (FTB): 2kV ,positive/negative, 5kHz(DC Power Port) EN61000-4-5 (Serge): 0.5kV line to line 0.5kV line to earth EN61000-4-6 (Conducted): 10V, 0.15MHz - 80MHz EN61000-4-8 (Power frequency magnetic field immunity): 30A/m (Local test) RFI, (145MHz, 440MHz 10W @10cm) Impulse 1000V @ 1µs pulse	
Withstand Voltage	1000VAC, 1min. (FG to Power supply)	
Insulation Resistance	> 10M ohm @ 500VDC (FG to Power supply)	
Vibration	IEC60068-2-6 (Test Fc) 5-9Hz: 3.5mm amplitude, 9-150Hz 1.0G 10 sweep cycles per axis on each of 3 mutually perpendicular axes	
Shock	IEC60068-2-27 (Test Ea) 15G peak, 11ms duration, 3 shocks in each direction per axis, on 3 mutually perpendicular axes	
Emission	EN55011 Class A (Radiated RF emission)	
Agency Approvals	UL61010, E157382 CE (EN61131-2), RoHS (2011/65/EU)	
J	CUL Canadian C22.2	

www.automationdirect.com Operator Interface

C-more Communication Ports



Ethernet Port

The Ethernet port has several uses:

- · Download program to panel
- Communicate to PLCs/PCs
- Send e-mail
- Access FTP server
- Act as a Webserver (Secure HTTPs)
- Remote Internet access

The Ethernet port has an RJ-45 8-wire modular connector with green and yellow LEDs.

- The yellow LED indicates network speed off for a 10 Mbps connection and illuminated for a 100 Mbps connection.
- The green LED indicates link status and illuminates when a link is established.

Note: EA6-T6CL-R does not include an Ethernet port, and does not have these capabilities.

Expansion Port

The expansion port supports the EA-ECOM module to provide a second Ethernet Port for all full featured models.

USB Port B

Program **C-more** via the USB programming port. It's fast and easy, with no baud rate settings, parity, or stop bits to worry about. We stock standard USB cables for your convenience. USB Port B can be used to upload or download projects to and from a PC.

USB Port A

The Universal Serial Bus (USB) Port A is a standard feature on all models and can be used to connect various USB HID (Human Input Device) devices to the panel, such as the following:

- USB flash drives (USB-FLASH)
- USB keyboards
- USB barcode scanners
- USB card scanners

C-more can log data to the USB flash drive as well as load projects to the panel from the pen drive. You can also back up project files and panel firmware.

Sound Interface (Audio Line Out)

When attached to an amplifier and speaker(s), *C-more* can play warning sounds or pre-recorded messages such as: "conveyor is jammed". *C-more* supports WAV type files. The output is stereo.

Serial Port

Port 1 - Connect to your serial controller network via Port 1. Port 1 is a 15-pin port that supports RS-232 or RS-422/485.

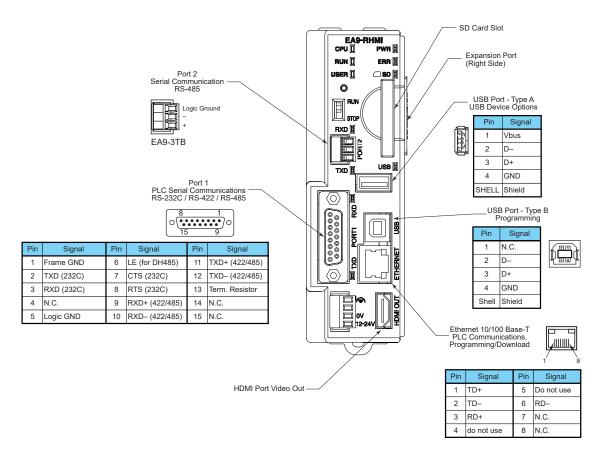
Port 2 - Connect your RS-485 network via Port 2. Port 2 is provided with a 3-wire removable terminal block.

Port 3 - Connect to your RS-232C device via Port 3. Port 3 is an RJ12 connection.

HDMI Video Out

<u>EA9-T12CL</u> and <u>EA9-T15CL</u> include an HDMI Type A port to provide video output to a projector or remote monitor.

C-more EA9-RHMI Communication Ports



Ethernet Port

The Ethernet port has several uses:

- Download program to panel
- · Communicate to PLCs/PCs
- Send e-mail
- Access FTP server
- Act as a Webserver (Secure HTTPs)
- Remote Internet access

The Ethernet port has an RJ-45 8-wire modular connector with green and yellow LEDs.

- The yellow LED indicates network speed off for a 10 Mbps connection and illuminated for a 100 Mbps connection.
- The green LED indicates link status and illuminates when a link is established.

Expansion Port

The expansion port supports the EA-ECOM module to provide a second Ethernet Port.

USB Port B

Program **C-more** via the USB programming port. It's fast and easy, with no baud rate settings, parity, or stop bits to worry about. We stock standard USB cables for your convenience. USB Port B can be used to upload or download projects to and from a PC.

USB Port A*

The Universal Serial Bus (USB) Port A can be used to connect various USB HID (Human Input Device) devices to the panel, such as the following:

- USB touchscreen (ELO™ Single Touch Resistive/SAW, EETI eGalax Single Touch Resistive and pCap touchscreens)
- USB mouse
- USB keyboard
- USB flash drives (USB-FLASH)
- USB barcode scanner
- USB card scanner

C-more can log data to the USB flash drive as well as load projects to the panel from the pen drive. You can also back up project files and panel firmware.

* 500mA maximum current available. Powered USB hub may be required for some devices

Serial Port

Port 1 - Connect to your serial controller network via Port 1. Port 1 is a 15-pin port that supports RS-232 or RS-422/485.

Port 2 - Connect your RS-485 network via Port 2. Port 2 is provided with a 3-wire removable terminal block.

HDMI Out Port

<u>EA9-RHMI</u> includes an HDMI Type A port to provide video / audio output to a projector or remote monitor. Supported resolutions are...

- 640 x 480 (VGA) 60Hz
- 720 x 480 (SD) 60Hz
- 1024 x 768 (XGA) 60Hz
- 1280 x 720 (HD) 60Hz

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