	•				
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	EA9-T6CL-R	EA9-T6CL	<u>EA9-T7CL-R</u>	EA9-T7CL	
Price	\$718.00	\$994.00	\$688.00	\$794.00	
Display Actual Size	5.7" TFT color		7.0" TFT color		
and Type	4.54" x 3.40"		6.00" x 3.60"		
Display Viewing Area	•	x 86.4 mm]	[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		0 (QVGA)	800 x 480 (WVGA)		
Display Brightness		its (typ)	350 nits (typ)		
LCD Panel Dot Pitch Color Scale	0.18 mm	x 0.18 mm	0.190 mm x 0.190 mm		
	65,536 colors				
Backlight Average Lifetime*	50,000 hours @ 25°C Four-wire analog resistive, single touch				
Touch Panel Type**	26	MB	_	MB	
Project Memory Number of Screens	20			IVIB	
	Up to 999 screens – limited by project memory Realtime clock built into panel, backed up for 30 days at 25°C				
Realtime Clock Calendar –		Realtime clock built into pariet,	backed up for 50 days at 25 C		
Month / Day / Year		Yes - monthly deviation	on 60sec (Reference)		
Serial Port 1	15-pin D-sub female – RS232C, RS-422/485				
Serial Port 2	N/A			N/A 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				
Ethernet Port -					
Expansion Module	N/A	<u>EA-ECOM</u>	N/A	<u>EA-ECOM</u>	
Audio Line Out	N/A	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)	N/A	3.5 mm mini jack	N/A	3.5 mm mini jack	
SD Card Slot	1 slot supports max 2GB (SD,) max 32GB (SDHC)				
HDMI Video Out	N/A				
HDMI Supported Resolution			/A		
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, EA-AC, 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		I In to 2000)m (6562ft)		
Operating Temperature	Up to 2000m (6562ft) O to 50°C (32 to 122°E) Maximum currounding air temperature rating: 50°C (122°E) IEC 60068-2-14 (Test Nh. Thormal Shock)			(Test Nh. Thermal Shock)	
· • ·	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) -20 to +60°C (-4 to +140°F) IEC 60068-2-1 (Test Ab, Cold)			(
Storage Temperature	l	IEC 60068-2-2 (Test Bb, Dry Heat) IEC 60068-2-14 (Test Na, Thermal Shock)			
Humidity		5-95% RH (non-condensing)			
Environment			nment, no corrosive gases permitted		
	(EN61131-2), EN61000-4	I-2 (ESD), EN61000-4-3 (RFI), EN610		EN61000-4-6 (Conducted)	
Noise Immunity	EN61000-4-8 (Power frequency magnetic field immunity) (Local Test)				
_	(Local Test) RFI, (145MHz, 440Mhz 10W @ 10cm), Impulse 1000V @ 1µs pulse				
Withstand Voltage		1000VAC, 1min. (F	<i>,</i> , , , , , , , , , , , , , , , , , , ,		
Insulation Resistance	> 1000 VAC, Thinh. (Fig. to Fower supply)				
Vibration	IEC60068-2-6 (Теst 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 CE (EN61131-2), RoHS (2011/65/EU) CUL Canadian C22.2 UL61010, E157382 CE (EN61131-2), RoHS (2011/65/EU) CUL Canadian C22.2 CUL Canadian C22.2			RoHS (2011/65/EU)	
	COL Cana	IUIGII UZZ.Z	L COL Cana	IUIGII UZZ.Z	

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

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	\$1,383.00	\$1,778.00	\$986.00		
Display Actual Size and Type	8.4" TFT color	10.4" TFT color	10.1" TFT color		
	6.71" x 5.03"	8.31" x 6.24"	8.77" x 4.93"		
Display Viewing Area	[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	0.218 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				
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				
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	EA-ECOM				
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, EA-AC, to power the touch panel from a 100-240 VAC, 50/60 Hz power source. Reverse Polarity Protected				
Power Consumption	18.0 W 17.0W 1.50 A @ 12VDC 1.42A @ 12 VDC 0.75 A @ 24VDC 0.71A @ 24 VDC				
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	<u> </u>		
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 f0requency magnetic field immunity) (Local Test) RFI, (145MHz, 440Mhz 10W @ 10cm), Impulse 1000V @ 1µs pulse				
Withstand Voltage	KFI, (14)	1000VAC, 1min. (FG to Power supply)	ι μο μαιοσ		
Insulation Resistance					
Vibration	> 10M ohm @ 500VDC (FG to Power supply)				
Shock	IEC60068-2-6 (Test Fc) 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 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	12" TFT color	15" TFT color	15" TFT color w/ full features		
Specification	w/ full features	w/ base features	<u>'</u>		
Part Number	EA9-T12CL	EA9-T15CL-R	EA9-T15CL		
Price	\$1,545.00	\$1,830.00	\$2,803.00		
Display Actual Size and Type	12.1" TFT color 15.0" TFT color				
Display Viewing Area	9.69" x 7.26" 11.97" x 8.98" [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 7	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	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	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	•	d (480 Mbps) Type B – Download/Program – Max.	,		
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	<u>EA-ECOM</u>		
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				
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		to +60°C (-4 to +140°F) IEC 60068-2-1 (Test Ab, 0 2 (Test Bb, Dry Heat) IEC 60068-2-14 (Test Na, Th			
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	3,(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)				
Enclosure	NEMA 250 type 4/4X indoor use only UL50 type 4X indoor use only				
Litelogui e		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 beaklight average !	ifetime is defined as the average usa		s becomes EOV 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 temperature usage.

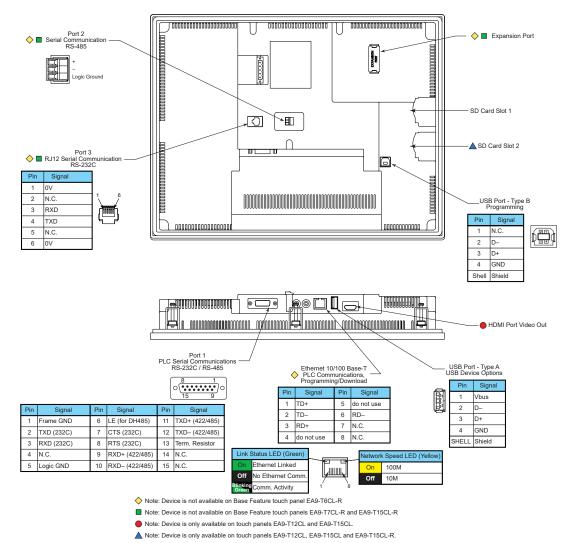
**The touchscreen is designed to respond to a single touch. If it is touched at multiple points at the same time, an unexpected object may be activated.

www.automationdirect.com Operator Interface tCME-4

	rection datae a specifications	
Specification	EA9 Headless HMI	
Part Number	EA9-RHMI	
Price	\$521.00	
Display	No Display	
Weight	0.59 lb [269g]	
Project Memory	82MB	
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 2.0 High speed (480 Mbps) Type B - Download/Program	
USB Port – Type B	Max cable length - 15 ft.	
USB Port – Type A	USB 2.0 High speed (480 Mbps) Type A - for USB device options 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	EA-ECOM	
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) 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)	
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)	

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 Web server
- 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 <u>EA-ECOM</u> 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.

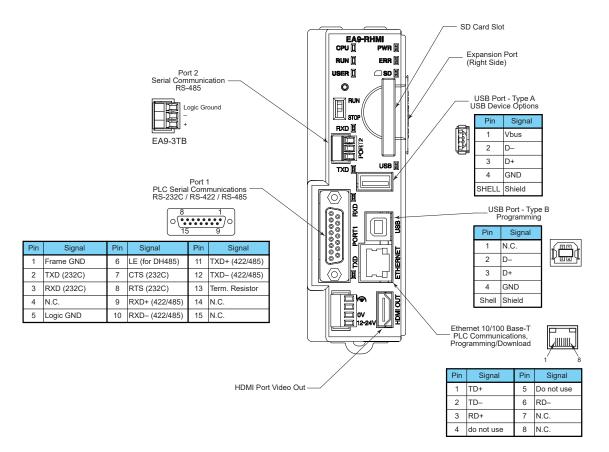
Port 2 - Connect your RS-485 network via Port 2. Port 2 is provided with a 3-wire removable terminal block.

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 Web server
- 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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