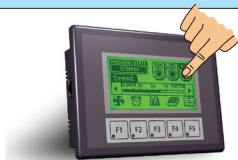









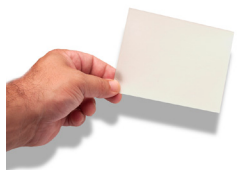
C-more Micro EA1 Series Selection Guide

| C-more Micro EA1 Series Panels | | | |
|------------------------------------|--|--|----------|
| Part Number | | Description | Price |
| <u>EA1-S3ML</u> |  | C-more Micro EA1 series touch screen HMI, 3in monochrome STN LCD, analog resistive, 128 x 64 pixel, LED backlight, (1) serial port. | \$272.00 |
| <u>EA1-S3ML-N</u> | Non-Touch  | C-more Micro EA1 series HMI, 3in monochrome STN LCD, 128 x 64 pixel, LED backlight, (1) serial port. | Retired |
| <u>EA1-S3MLW</u> |  | C-more Micro EA1 series touch screen HMI, 3in monochrome STN LCD, analog resistive, 128 x 64 pixel, high-contrast white LED backlight, (1) serial port. | \$272.00 |
| <u>EA1-S3MLW-N</u> | Non-Touch  | C-more Micro EA1 series HMI, 3in monochrome STN LCD, 128 x 64 pixel, high-contrast white LED backlight, (1) serial port. | Retired |

| Part Number | Panel Software / Firmware Version Required |
|------------------------------------|--|
| <u>EA1-S3ML</u> | 1.0 or later |
| <u>EA1-S3MLW</u> | 1.5 or later |
| <u>EA1-S3MLW-N</u> | |

C-more Micro EA1 Series Selection Guide

| C-more Micro EA1 Series Panels Programming Software & Programming Cable | | | |
|---|---|--|---------|
| Part Number | | Description | Price |
| <u>EA-MG-PGMSW</u> |  | C-more Micro Windows programming software, USB or free download. For use with C-more Micro panels. Requires USB port connection from PC to C-more Micro panel. | \$31.50 |
| <u>EA-MG-PGM-CBL</u> |  | AutomationDirect programming cable assembly, USB A to 6-pin RJ12, 6ft cable length. For use with C-more Micro panels, CLICK CPUs, Do-more H2 series CPUs, and DirectLOGIC CPUs. | \$52.00 |

| C-more Micro EA1 Series Panel Accessories | | | |
|---|---|--|---------|
| Part Number | | Description | Price |
| <u>EA-COMCON-3</u> |  | C-more DSUB port adapter, 15-pin male to 6-pole RS-422/485 terminal block, right angle cable entry. For use with C-more Micro EA1 series 4in and 6in HMIs, C-more Micro EA3 series 3in, 4in, and 6in HMIs, C-more EA9 6in and 7in HMIs and C-more CM5 series 4in HMI. | \$55.00 |
| <u>EA-COMCON-3A</u> |  | C-more Micro DSUB port adapter, 15-pin male to 6-pole RS-422/485 terminal block, straight cable entry. For use with C-more Micro EA1 3in with EA1-MG-SP1, EA3 8in and 10in HMIs, C-more EA9 8in, 10in, 12in and 15in and CM5 7in, 10in, 12in, 15in and 22in HMIs. | \$30.50 |
| <u>EA-MG-COV-CL</u> |  | C-more screen protector, clear, 3in. Package of 5. For use with C-more Micro 3in HMIs. | \$47.50 |
| <u>EA-4-COV2</u> | | C-more Micro screen protector, non-glare, 4in. Package of 3. For use with C-more Micro EA1-T4CL 4in HMIs. | Retired |
| <u>EA-6-COV2</u> | | C-more screen protector, non-glare, 6in. Package of 3. For use with C-more and C-more Micro 6in HMIs. | \$49.50 |



For a list of supported protocols and cabling options refer to the 3-inch **C-more** Micro Protocols and cabling chart starting on page tCMM-12

C-more Micro 3-inch EA1 Specifications

| Specification | Model | 3-inch STN Micro Panel Touch Screen | 3-inch STN Micro Panel Non-Touch Screen |
|---|-------|---|--|
| Part Number | | EA1-S3ML, EA1-S3MLW | EA1-S3MLW-N |
| Description | | 128 x 64 pixel LCD display, five user defined keypad function buttons, and five user defined LED's | |
| Display | | | |
| • Type | | 3.1-inch STN monochrome LCD, graphical characters | |
| • Resolution | | 128 (W) x 64 (H) pixel | |
| • Color | | 2 colors (normal / inverse) | |
| • Viewing Area Size | | 2.789" (W) x 1.385" (H) [70.8 mm x 35.2 mm] | |
| • Active Area Size | | 2.670" (W) x 1.259" (H) [67.8 mm x 32.0 mm] | |
| • Contrast | | Adjusted from the panel's built-in configuration setup menu | |
| • Viewing Angle | | 3, 9 o'clock axis → 45 degrees 6 o'clock axis → 45 degrees 12 o'clock axis → 30 degrees | |
| Backlight | | | |
| • Type | | LED | |
| • Color | | 5 user defined colors: EA1-S3ML, - Red, Green, Amber, Lime, and Yellow EA1-S3MLW, EA1-S3MLW-N - White, Pink1, Pink2, Pink3 and Red | |
| • User Replaceable | | No | |
| Touch Screen | | | |
| • Type | | Analog touch panel, single touch* | N/A |
| • Operation | | 51 gram force [0.5 N] maximum | N/A |
| • Life | | Minimum of 1,000,000 cycles | N/A |
| Features | | | |
| • User Memory | | 768 KB | |
| • Number of Screens | | Up to 999 – limited by project memory usage | |
| • Beep (Internal) | | Yes | |
| • Keypad Function Buttons | | Five user defined function key buttons with the ability to customize the label. Minimum of 500,000 cycles | |
| • Keypad Function Button LEDs | | Each function key button includes a red LED that can be user programmed. | |
| • Serial Communications | | Built-in RJ12 serial communications port (RS-232). Optional serial communications port (RS-232, RS-485/422) when using the optional EA-MG-SP1 Serial Port with DC Power Adapter. | |
| • Expansion Connection | | Yes – used with optional EA-MG-P1 DC Power Adapter (discontinued), and EA-MG-SP1 Serial Port with DC Power Adapter (discontinued). | |
| Screen Objects | | | |
| • Functional Devices | | Pushbutton, Switch, Indicator Button, Indicator Light, Graphic Indicator Light, Numeric Display, Numeric Entry, Inc/Dec Value, Bar Graph, Bitmap Button, Static Bitmap, Dynamic Bitmap, Recipe Button, Static Text, Lookup Text, Dynamic Text, Scroll Text, Screen Change Pushbutton, Screen Selector, Adjust Contrast, Function, Key Configuration Object, Realtime Graph, Line Graph, Analog Meter | |
| • Static Shapes | | Lines, Rectangles, Circles and Frames | |
| • Displayable Fonts | | Fixed fonts: 4x6, 6x6, 6x6B, 6x8, 8x16, 8x32, 8x64, 16x16, 16x32, 16x64, 32x16, 32x32, 32x64, and Windows fonts | |
| *Note: 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. | | | |
| C-more 3-inch Micro panel specifications continued on next page. | | | |

C-more Micro 3-inch EA1 Specifications

| Specification | Model | 3-inch STN Micro Panel Touch Screen | 3-inch STN Micro Panel Non-Touch Screen |
|---|-------|---|--|
| Part Number | | EA1-S3ML, EA1-S3MLW | EA1-S3MLW-N |
| Electrical | | | |
| • Input Voltage Range | | 5.0 VDC (4.75 – 5.25 VDC) | |
| • Input Power | | Supplied through the panel's RJ12 serial communications port connection when used with any AutomationDirect PLC having an RJ12 communication port. | |
| • Power Consumption | | 1.05W (220mA @ 4.75 VDC) | |
| • Recommended Fuse | | Type AGC fast acting glass fuse, 250 mA, 250 VAC, ADC p/n AGC-25 No fuse required when directly connected to a PLC or PC with recommended cable. | |
| • Maximum Inrush Current | | 1 A for 500 µs | |
| • Acceptable External Power Drop Duration | | Maximum 1ms | |
| Environmental* | | | |
| • 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: 1.0G, 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), 15 G peak, 11ms duration, three shocks in each direction per axis, on 3 mutually perpendicular axes (total of 18 shocks) | |
| • Noise Immunity | | NEMA ICS3-304 (EN61131-2) RFI, (145MHz, 440Mhz 10W @ 10cm) Impulse 1000V @ 1µS pulse EN61000-4-2 (ESD), EN61000-4-3 (RFI), EN61000-4-4 (FTB), EN61000-4-5 (Surge) N61000-4-6 (Conducted), EN61000-4-8 (Power frequency magnetic field immunity) | |
| • Enclosure | | For use on a flat surface of Type 1, 4X enclosure (Indoor use only) | |
| • Agency Approvals | | CE (EN61131-2), UL508, CUL Canadian C22.2 No. 142-M95, UL File E157382, CSA File 234884 | |
| Physical | | | |
| • Dimensions | | 4.488" (W) x 3.228" (H) x 1.593" (D) [114.0 mm x 82.0 mm x 40.5 mm] | |
| • Enclosure Mounting Thickness Range | | 0.04" – 0.2" [1 – 5 mm] | |
| • Mounting Clip Screw Torque Range | | 21 – 28 oz-in [0.15 – 0.2 N·m] | |
| • Depth from bezel rear with options Module | | 2.295" [58.3 mm] | |
| • Weight | | 5.82 oz. (165 g) | |



NOTE: The environmental specifications for the panels shown above are also applicable for the **C-more** 3" Micro accessories shown later in this section of the catalog.

| Supported Protocols / Drivers |
|---|
| Serial - Panel port1 |
| AutomationDirect Productivity Series |
| AutomationDirect CLICK |
| AutomationDirect Do-more / BRX* |
| AutomationDirect K-sequence |
| AutomationDirect DirectNET |
| AutomationDirect Modbus |
| Modicon Modbus RTU |
| Entivity Modbus RTU |
| Note: * BX-P-SER2-RJ12 is required |



For a list of supported protocols and cabling options refer to the 3-inch **C-more** Micro Protocols and cabling chart starting on pagepage tCMM-12