



E-PLEX® | 500CCM SERIES Color LCD & Electronic Control Module

Key Features

- Helm mountable
- 7" diagonal color LCD Touch Screen with transmissive display
- 480 x 234 screen resolution, 16-bit true color
- Rear USB service port
- Custom touch screen graphic design and layout created within E-Logic software
- Custom dynamic and static graphics provided via color touch screen and touch overlay areas
- Landscape & Portrait Orientation Options



Design Specifications

- Shock: (non-operating) Half sine wave, 80G, 11ms 3 times shock of each six faces
- Vibration: Tested to Lloyds test spec #1 section 12
- Moisture resistance : IP66
- PCB characteristics : UL94V-0
- Salt spray: Mil Std-202

Overview

The E-PLEX® 500CCM series combines master programmer and controller functionality along with a color touch screen interface providing a robust display and control solution for any E-Plex System. Dynamic touch screen graphics and static touch overlays give you the ability to provide a unique appearance while maintaining a constant interface.

The 500CCM is compatible with existing E-Plex modules and provides advanced system status and configuration capabilities. Combining the 500CCM with other AC distribution, DC distribution, digital I/O, sensing, user interfaces and system interface modules allows you to configure a system to meet your specific needs.



Electrical Specifications:

Description	Minimum	Nominal	Maximum
Operating Voltage	9 VDC	12 / 24 VDC	32 VDC
Operating Current, no E-Plex loads	400 mA @ 32VDC	-	900 mA @ 9VDC
E-Plex Output Current	-	-	1.5 A

Physical Specifications:

LCD Brightness	350 cd / m ²
Real-Time Clock Battery Life	20,000 hours typical
LCD Horizontal Viewing Angle	-60 / 60
LCD Vertical Viewing Angle	-30 / 60
Front Bezel	UL 94 V-0, approved molded ABS
Back Cover	UL 94 V-0, approved molded ABS
Operating Temperature	-20°C to 50°C
Storage Temperature	-30°C to 85°C
Operating Humidity	5% to 100%
Weight	680 grams
Recommended Wire Specification for E-Plex Twisted Pair ¹	16 AWG (1.3 mm) - Unshielded, twisted pair General purpose: Belden 1035 A - Non-tinned Marine: Belden 9410 - Tinned

NOTE:

1. Unrestricted topology: Star, Tree, Daisy Chain configurations all valid.

Wiring Specifications:

Terminal Connector Specifications	Tin-plated male 0.250" quick-connect tabs
Mating Connector Specification	0.250" female spade terminal

Mounting Specifications:

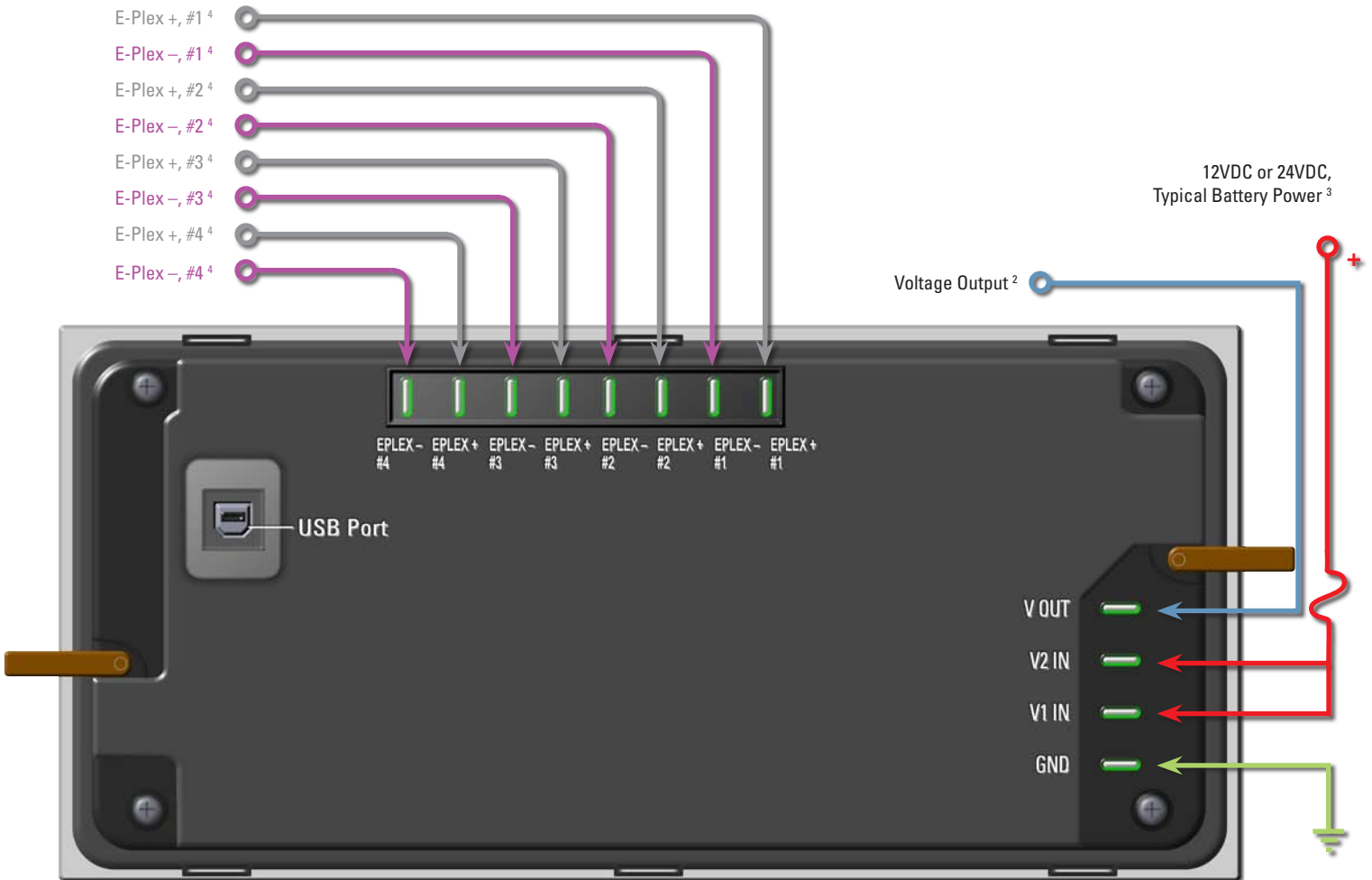
A rectangular hole the size of the keep out area (labeled on the dimensional drawings) must be cut from mounting surface. The keep out area is 9.75" x 4.32". The depth of the module is approximately 1.325". Please allow sufficient room for all wires connected to the clock as well.

Mounting Instructions:

Hand tighten mounting screws until snug, torque should not exceed 10 in-lbs.



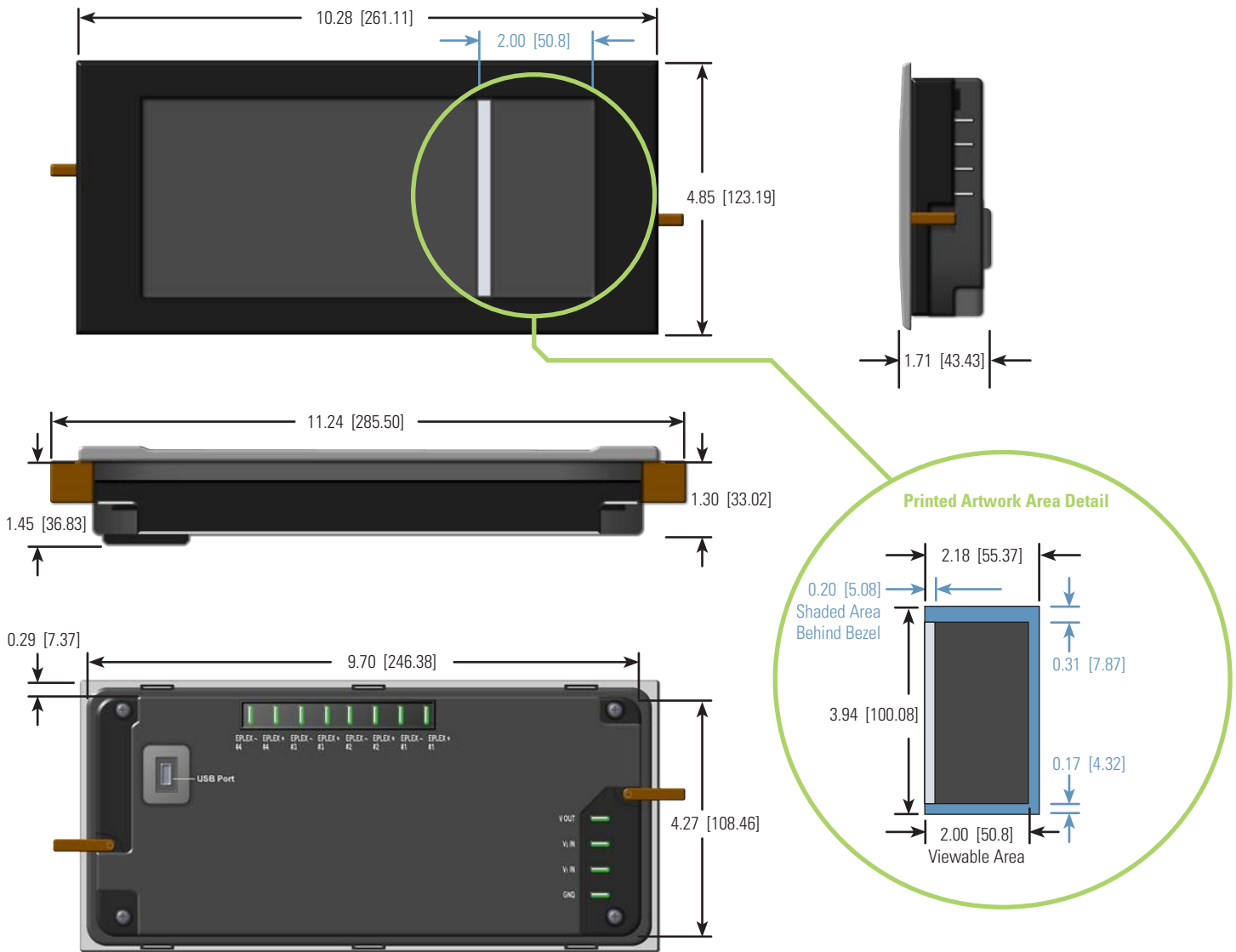
Typical Wiring Diagram:



NOTES:

- ² V_{OUT} pin is a ≤1 amp current DC output.
- ³ User must install fuse or breaker to protect the circuit, rated for 5 amps or less.
- ⁴ 1.5A max total for all 4 data connections

Dimensional Diagram:



Recommended Hole Cutout : 9.75" x 4.3" (247.65mm x 109.22mm)

Ordering Information:

Description	E-PLEX® Part Number
500CCM Series - Color LCD & Electronic Control Module	500CCM

