

## Color LCD & Electronic Control Module



### Introduction

The E-PLEX® 500CCM series combines master programmer and controller functionality with a color touch screen interface, producing a singular, 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.

### Key Features

- ◆ Helm mountable
- ◆ 7" diagonal color LCD touch screen with transmissive display
- ◆ 480 x 234 screen resolution, 16-bit true color
- ◆ 256KB of onboard memory including a master record of configuration data
- ◆ 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

## 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 <sup>2</sup>
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 <sup>1</sup>	16 AWG (1.3 mm) - Unshielded, twisted pair General purpose: Belden 1035 A - Non-tinned Marine: Belden 9410 - Tinned

## 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.

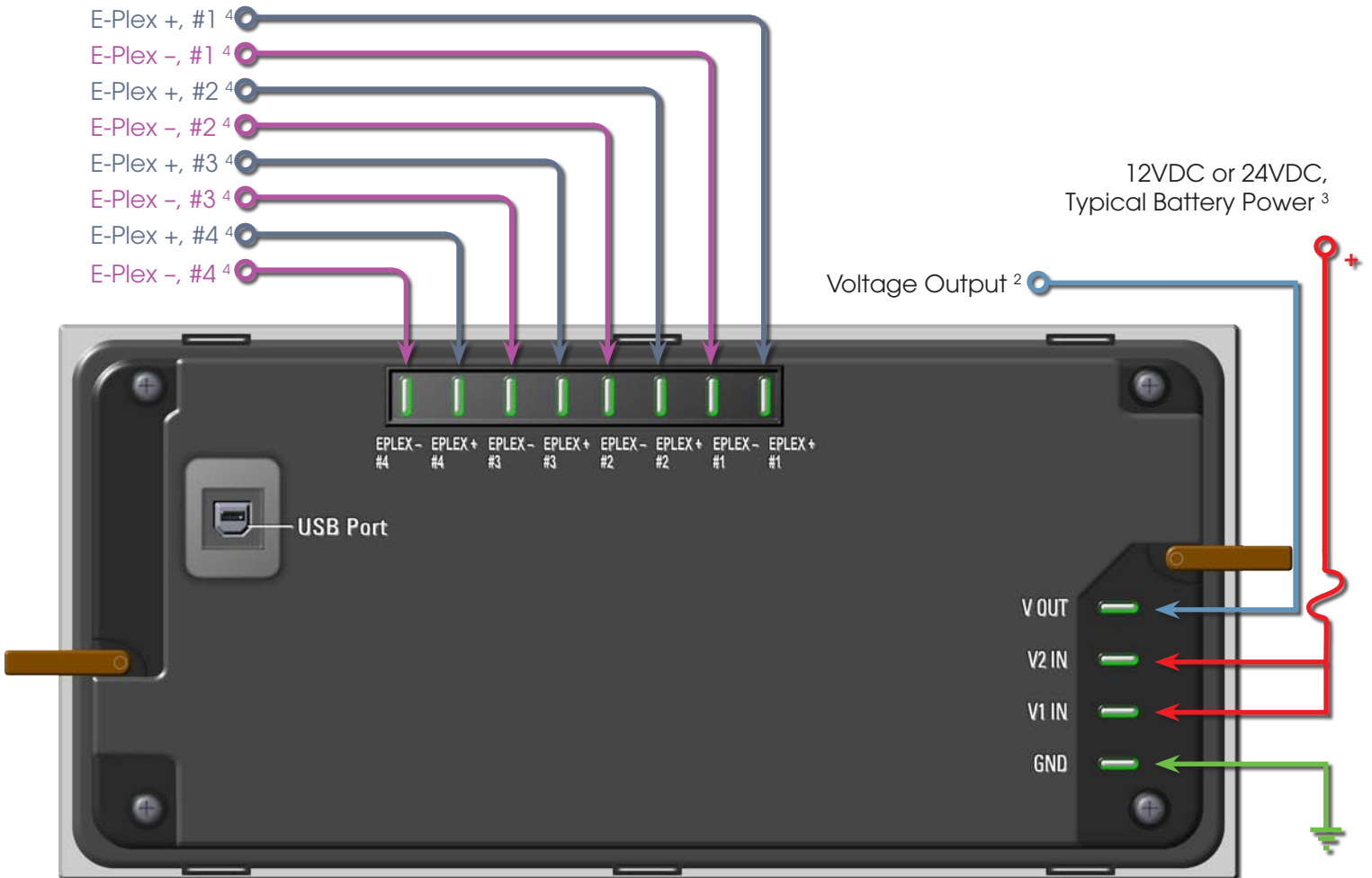
## Mounting Instructions

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

### NOTE:

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

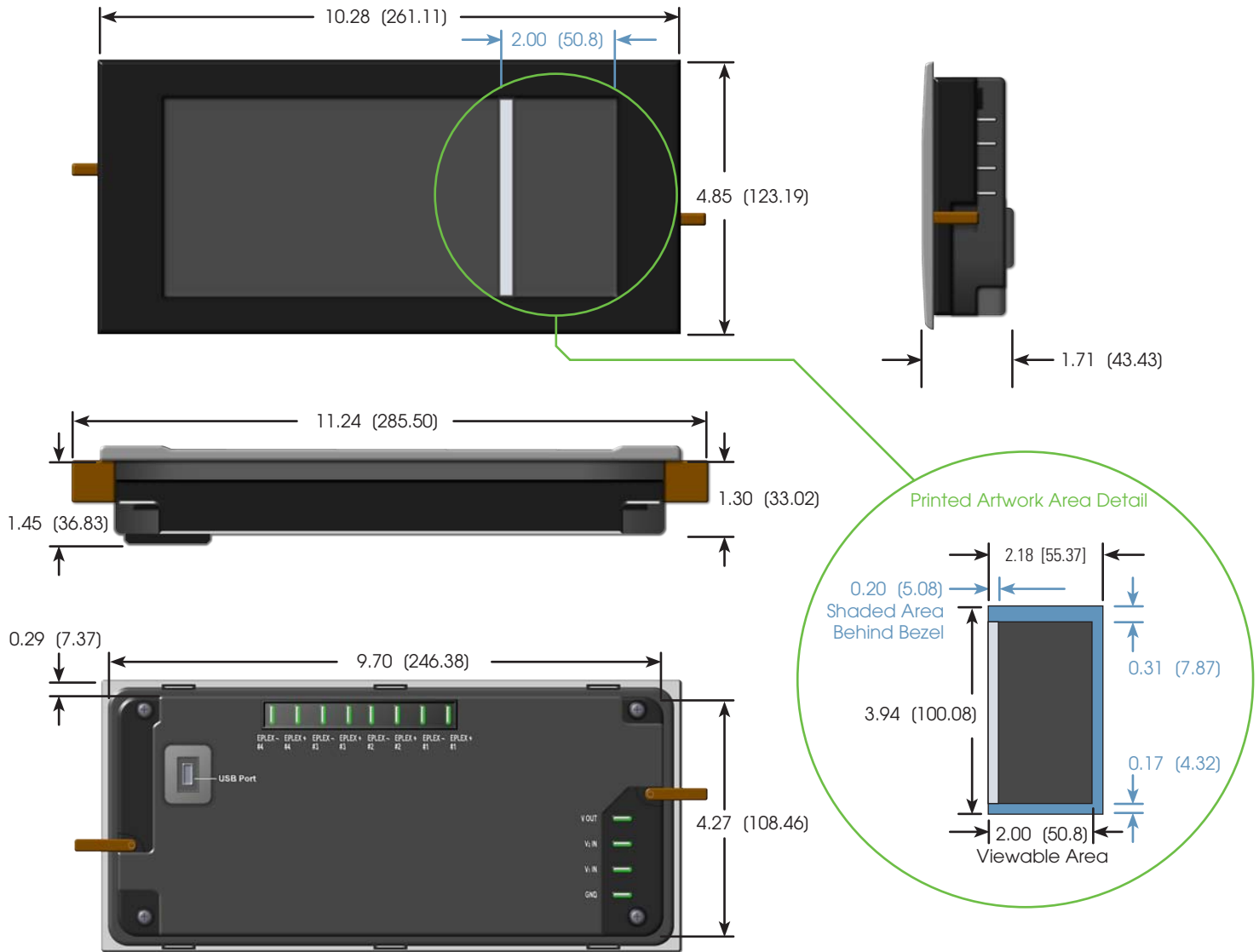
## Typical Wiring Diagram



### NOTES:

- <sup>2</sup>.  $V_{OUT}$  pin is a  $\leq 1$  amp current DC output.
- <sup>3</sup>. User must install fuse or breaker to protect the circuit, rated for 5 amps or less.
- <sup>4</sup>. 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	ED&D Part Number
500CCM Series - Color LCD & Electronic Control Module	500CCM

