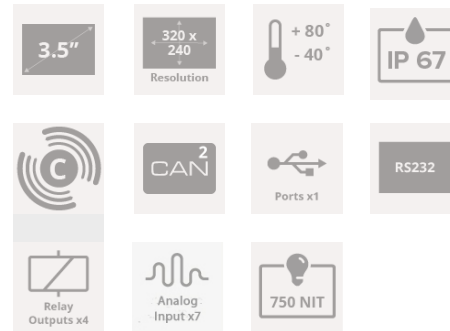


# C3I

3.5" QVGA Graphical Color Display with Low Profile Bezel



## Technical Data



## Introduction

The C3I is a highly flexible and rugged 3.5" color CAN bus display with a stylish and sleek low profile bezel. Using the powerful Freescale iMX 286 (running at 454 MHz) processor, programmers can quickly put together a project using our proprietary SDK (software developers kit) and proven Veethree component based library.

The C3I now offers seven analog inputs, three digital inputs, four outputs, two CAN connections and USB to allow multiple functionality and increased I/I capabilities.

The high brightness QVGA (320 x 4\240 pixels) color display is fully sunlight viewable and the unit is highly sealed. Electrically and environmentally rugged, the new VeeCAN display is ready to meet the challenge of providing tough, flexible instrumentation for harsh environments.

## Key Features

- 2 x CANbus & 1 x USB
- IP66 (front) and IP67 (back) Protection
- 4 x Relay Output
- Monitors key engine functions & TIER 4
- Optional Sleep Mode Available
- Low Power Option Available (SAE J1113/11 Pulse 4)
- Integrated Deutsch 12 pin connector
- Fully sunlight readable
- 5 tactile buttons for navigating menu interface

# C3I

3.5" QVGA Graphical Color Display with Low Profile Bezel

## Reliability

Veethree Electronics continues to successfully deploy products in an enormously diverse range of applications where total reliability is vital.

Our products, custom or standard range, are backed up by a dedicated central team of specialist engineers able to rapidly adapt any product for a specific application and to provide an unrivalled level of customer support.

## Software

Using the powerful Freescale iMX 286 (running at 454 MHZ) processor, programmers can quickly put together a project using our proprietary SDK (software developers kit) and proven Veethree component based library.

Alternatively, we can develop custom software to your specification using our experienced in-house engineers.

Over the years our engineers have developed software for our displays to run rock crushers & mining machinery, measure performance of spraying equipment, acting as battery monitors, boat gyro stabilizers, plus many more including military and aerospace applications.

## Part Numbers

C3I (Low Profile Bezel) Base Model: 70406

C3I (Low Profile Bezel) Low Power Model: 71140



# C3I

3.5" QVGA Graphical Color Display with Low Profile Bezel

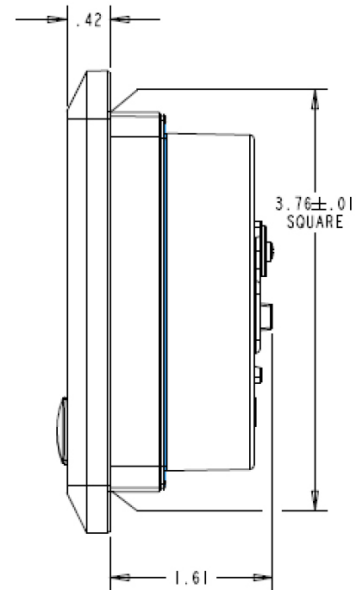
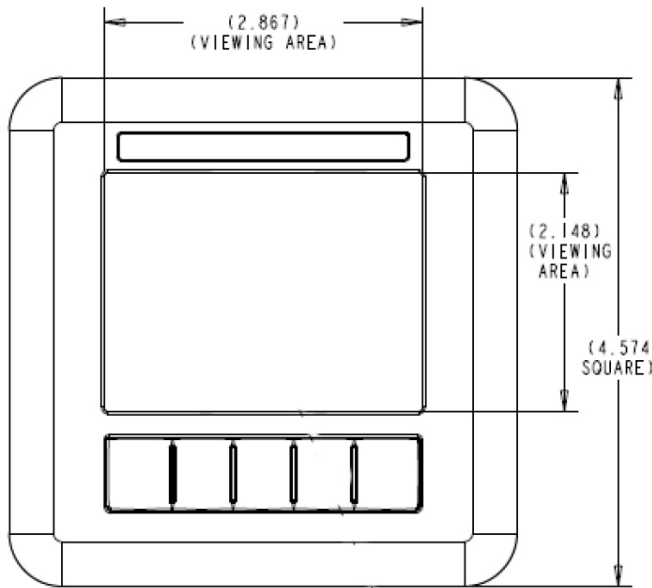
## Specifications

| Hardware              |  |
|-----------------------|--|
| Micro Controller      | Processor is Freescale iMX 286, running at 454 MHz                 |
| Flash Memory          | 128 MB   |
| Electrical            |  |
| Display               | a-Si TFT LCD 3.5"  |
| Resolution            | 320 (H) x 240 (V) QVGA   |
| Active Area           | 70.08mm (H) x 52.56mm (V)  |
| Viewing Angle         | 130/110 degrees from 6 o'Clock                                     |
| Number of Colors      | 64K  |
| Contrast Ratio        | 300 : 1 ratio  |
| Brightness            | 750 NIT (cd/m2) Full sunlight readable                             |
| Power Requirements    | 10-32V DC (Low Power Model: 5-32V DC)                              |
| Sounder               | Internal buzzer  |
| Connection            | (2) 12 Pin Deutsch DT04-12P Moulded in Receptacle                  |
| Communications        | RS232, (2) CAN Bus 2.0B and USB 2.0                                |
| Environmental         |  |
| Operating Temperature | -40 to +80 Degrees Celsius   |
| Storage Temperature   | -40 to +80 Degrees Celsius   |
| Degree of Protection  | IP66 (front) and IP67 (back)                                       |
| Mechanical            |  |
| Case Material         | ABS  |
| Case Color            | Anthracite Grey  |
| Dimensions            | 115.32mm (W) x 115.32mm (H) x 10.67mm forward and 40.90mm rear (D) |

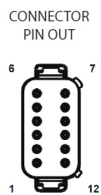
# C3I

3.5" QVGA Graphical Color Display with Low Profile Bezel

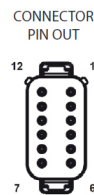
## Dimensions



## Connectors



| PRIMARY CONNECTOR |          |   |
|-------------------|----------|---|
| 1                 | GND      | GROUND  |
| 2                 | PWR      | GROUND & POWER (10-30V DC). SUPPLY SHOULD BE PROTECTED BY 500mA - RATED CIRCUIT BREAKER/FUSE. |
| 3                 | RLA1     | RELAY/SOLENOID OUTPUT1  |
| 4                 | RLA2     | RELAY/SOLENOID OUTPUT2  |
| 5                 | CAN2 (-) | ISOLATED CAN SUPPLY (-)   |
| 6                 | CAN2 (+) | ISOLATED CAN SUPPLY (+)   |
| 7                 | CAN2H    | ISOLATED CAN DATA H   |
| 8                 | CAN2L    | ISOLATED CAN DATA L   |
| 9                 | RLA3     | RELAY/SOLENOID OUTPUT 3   |
| 10                | RLA4     | RELAY/SOLENOID OUTPUT 4   |
| 11                | CAN1L    | PRIMARY CAN DATA L  |
| 12                | CAN1H    | PRIMARY CAN DATA H  |



| SECONDARY CONNECTOR |         |                             |
|---------------------|---------|-----------------------------|
| 1                   | AN1     | SENSOR 1 ANALOG INPUT       |
| 2                   | AN2     | SENSOR 2 ANALOG INPUT       |
| 3                   | AN3     | SENSOR 3 ANALOG INPUT       |
| 4                   | AN4     | SENSOR 4 ANALOG INPUT       |
| 5                   | AN5     | SENSOR 5 ANALOG INPUT       |
| 6                   | AN6     | SENSOR 6 ANALOG INPUT       |
| 7                   | AN7     | SENSOR 7 ANALOG INPUT       |
| 8                   | DIG1    | DIGITAL INPUT/FLOW SENSOR 1 |
| 9                   | DIG2    | DIGITAL INPUT/FLOW SENSOR 2 |
| 10                  | TACH    | TACHOMETER INPUT            |
| 11                  | RS232TX | RS232 RECEIVE               |
| 12                  | RS232RC | RS232 TRANSMIT              |