

### Technical data



7 INCH  
DISPLAY



800 NIT  
DAYLIGHT  
VIEWABLE



PCAP



800  
x 480  
RESOLUTION



IP 67  
INGRESS  
PROTECTION



+ 80°  
- 30°  
OPERATING  
TEMP



1 X ANALOGUE  
OUTPUT



1 X DIGITAL  
INPUT



ETHERNET



1 X USB  
PORT



1X RELAY  
OUTPUT



RS422  
1 X RS422/485



CAN  
2 X  
CAN BUS

# T7i

## 7" TOUCH DISPLAY

PART OF THE T SERIES FAMILY OF DISPLAYS, FEATURING A TOUCH COLOUR SCREEN.

The T7i has a slim-line profile housing a hi-resolution 7-inch projected capacitive touch customisable colour screen delivering modern tablet like aesthetics.

The WVGA (800x480) PCAP LCD colour display can be viewed in full sunlight and the ruggedised unit is sealed to meet IP 67 standards. With dual CAN and Ethernet supported the display is suited to a wide range of applications. External buttons can be added via a compatible CAN keypad.

It meets the need for tough, flexible instrumentation while offering high performance and design specifications. Custom software applications to be rapidly created using the software development kit (SDK), and the display can be integrated into a control & monitoring system using its data logging capacity, and alarm functionality.

A Freescale iMX 6 processor and dedicated graphics processor offer high performance graphics and video capabilities. Running linux, programmers can quickly put together a project using our proprietary software developer's kit (SDK) and the proven Veethree component based library. Application software is able to be rapidly validated on a PC using the PC simulator.

### Reliability

Our products continue to be successfully deployed in an enormously diverse range of applications where total reliability is vital.

All products, bespoke 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.

Displays are also supported with a return to base extended 24-month Manufacture warranty against mechanical failure or material defects.



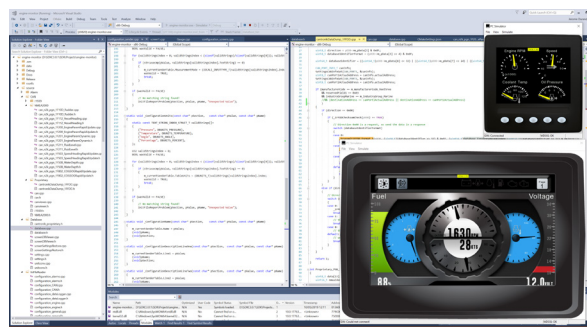
### Software

Our SDK is offered for a one-off licence fee from which customers can develop their own bespoke application solution. Available are optional plugins for CANopen, J1939, NMEA 2000, and support hours are included should your engineers need any help along the way.

Alternatively, we can develop bespoke 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 stabilisers, plus many more including military and aerospace applications.

Also available is our Engine Monitor standard software for Industrial and Marine, which can be pre-loaded to our displays receiving and displaying J1939 engine and transmission data, including common Tier4 parameters, with active alarms (from DM1) & NMEA 2000 data, where supported.



### Accessories

- > Cable Harnesses
- > Front Mounting Kits
- > CAN Keypad
- > Branding - Labels & Boxes
- > GPS Sensor
- > Development Harness

### Specifications

Hardware	
CPU	Freescale iMX 6 800Mhz and additional Graphics Processor
FLASH Memory	512 MB SLC NAND
SDRAM	256 MB DDR3

Electrical	
Display	PCAP LCD 7.0"
Resolution	800 (H) x 480 (V) WVGA
Active Area	152.4mm (H) x 91.44mm (V)
Viewing Angle	70 degrees left/right/down/up
Contrast Ratio	600:1
Brightness	800 NIT (cd/m2) Full sunlight readable
Power Requirements	8V to 32V DC
Sounder	Internal Buzzer
Connection	5 x M12 Connectors
Communications	1 x RS422/485, 2 x CAN Bus 2.0B (1 isolated)
	1 x USB 2.0, 1 x Ethernet

Environmental	
Operating temperature	-30°C to +80°C
Storage Temperature	-30°C to +80°C
Degree of Protection	IP67

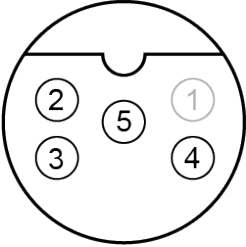
Mechanical	
Case material	ABS
Case colour	Anthracite Grey
Dimensions	181.1mm (W) x 124mm (H) x 11mm forward and 56.4mm rear (D)

Input / Output	
Analogue Input	Software selectable as 0 - 2.5 VDC, 0 - 10 VDC or 0 - 10 VDC or 0 - 1000 OHMS
Switch Inputs	Switch Contact to ground or open collector type sensor - max. frequency = 50 Hz
Relay Output	Open collector suitable 0.5A continuous load.

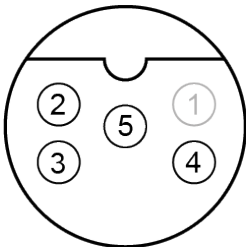
Part Number	
7010	T7i 7" CAN Display
7011	T7i 7" CAN Display with Engine Monitor Software Preloaded

### Connectors

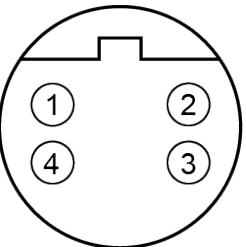
CAN1	
1	No Connection
2	Positive DC Supply
3	Ground
4	CAN Data H
5	CAN Data L



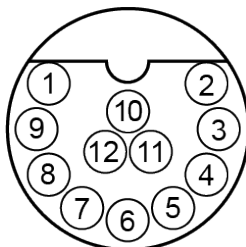
CAN2	
1	No Connection
2	Isolated Volts Positive
3	Isolated Volts Negative
4	Isolated CAN Data H
5	Isolated CAN Data L



Ethernet	
1	White/Orange +TK
2	White/Green +RX
3	Orange - TX
4	Green

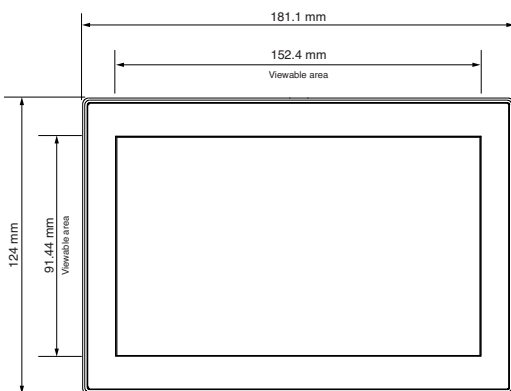


External USB IO	
1	USB Volts Positive
2	USB Data Negative (DM)
3	USB Data Positive (DP)
4	No Connection
5	USB Volts Negative
6	RS422/485 Tx+*
7	RS422/485 Tx-*
8	RS422/485 Rx+*
9	RS422/485 Rx-*
10	Digital Input
11	Analogue Input
12	Relay Output

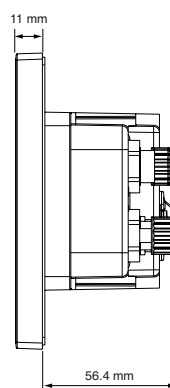


### Dimensions

FRONT VIEW



SIDE VIEW



REAR VIEW

