CANDiCon25

CAN Touchscreen



TECHNICAL DATASHEET

Short Facts

Display Size	2x 5“	Operating Voltage	9-36V
Display Resolution	2x 800x480px	Operating Temperature	-20 to + 70°C
Brightness	850 cd/m²	Weight	450g
Touchscreen	Projected Capacitive	Interfaces	2x CAN, 1x LIN, 1x iO

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Specifications

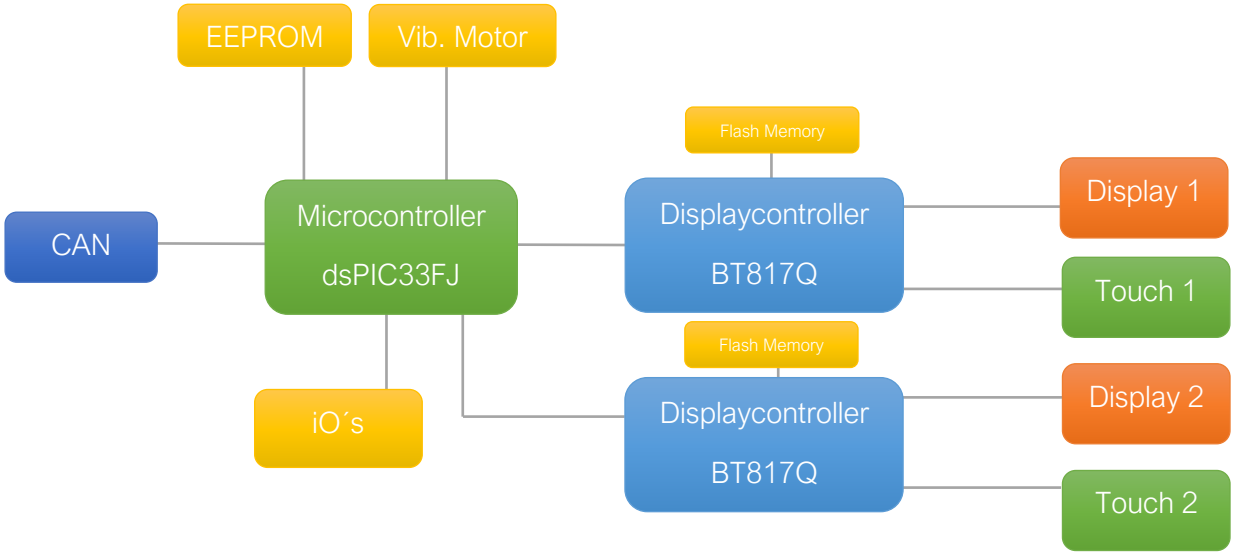
Display Size	2x 5“	Display Resolution	2x 800 x 480 px
Supply Voltage	9-36V	Operating Temprature	-20 to + 70°C
Weight	450g	Brightness	850 cd/m²
Touchscreen	Projected Capacitive	Interfaces CAN	2x CAN up to 1 Mbit/s 1x LIN/Lowside switch 1x Highside switch
Mounting	4x M5	Panel	TFT IPS
Viewing angle	85° each direction	Flash Memory size	2x 64Mbyte
Material Screen	1,1mm Glass	Material Housing	Aluminum
Connector	DT8	Optical Bonding	no
Protection rate	IP54	Program Flash size	128 Kb
EEPROM	256 kbit	Battery voltage measurement	Build in +/- 5%
Color	Black*	Touch keypad frame	Customizable cutoffs

*ask for different color options

Description

The CANDiCon25 is specifically designed to display operator information for agricultural and construction machinery, as well as commercial vehicles in general. Featuring a robust projected capacitive touchscreen, it is built to perform reliably in harsh environments.
Our innovative design, incorporating grid cutoffs above the screen, enables a seamless tactile experience when interacting with virtual buttons or switches. Moreover, it allows users to control virtual joysticks effortlessly with just their thumb - even without direct visual contact.
Thanks to its specialized internal design, which combines a dedicated graphic controller with a compact microcontroller, we proudly offer a high-performance double 5” touchscreen display at an affordable price.

Block Diagram



Communication

CAN 2.0B Support. 11Bit and 29Bit IDs are possible. Data transmission rate up to 1Mbit/s.

LIN Communication

Connector

M12 A-Coded 5 Pin.

IO´s

1x Highside switch OUT and analog IN 0-10V.

1x Lowside switch OUT and analog IN 0-10V

Pinout

PIN	Function
1	V+ Power supply
2	IO2/LIN
3	GND
4	IO1
5	CAN0-L
6	CAN0-H
7	CAN1-L
8	CAN1-H

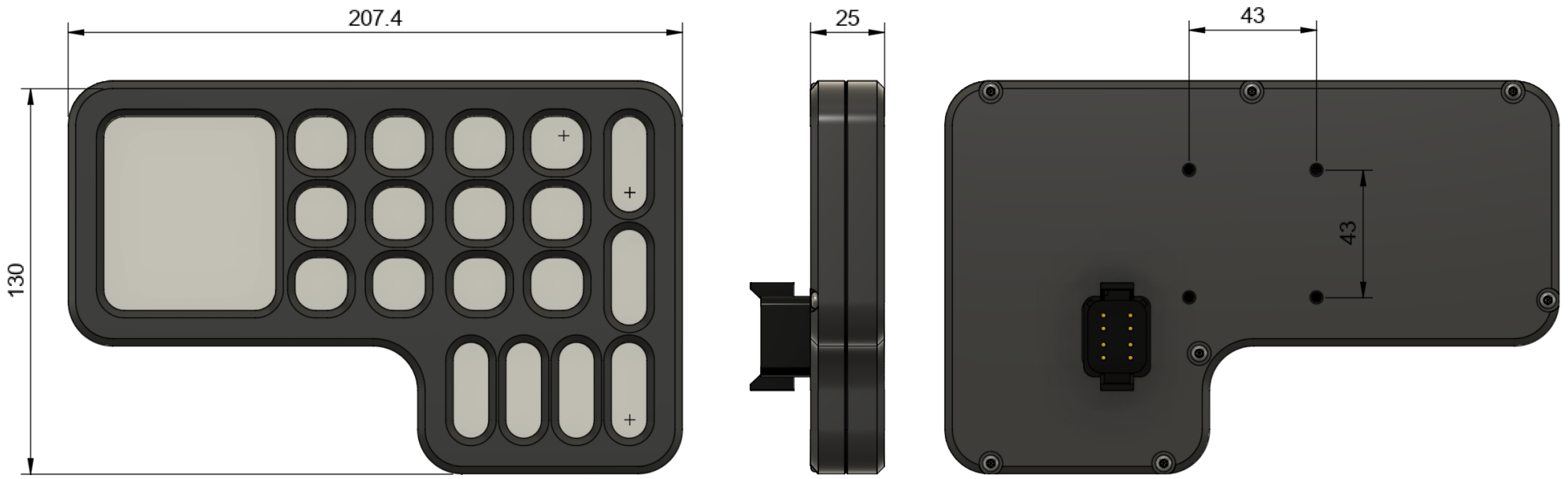


Programming

To program the CANDiCon25 it is recommended to use the toolchain from Bridgetech for the BT817Q graphic controller (EVE Asset builder) and the toolchain from Microchip for the dsPIC33 (MPLAB-X and XC16).

The CANDi4T comes with a CAN bootloader from CVEP. It is possible to flash all the assets to the dedicated flash chip and the program to the Microcontroller with our CVEP flash tool. The download process is based on CANopen. Ask CVEP for sample project and the QuickStart manual

Dimensions



All values in mm.

Ask CVEP for 3D-Model.

CVEP GmbH

Gewerbegebiet Ost 35

92353 Postbauer-Heng

www.cvep.de

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