CANDi5

CAN Touchscreen



TECHNICAL DATASHEET

Short Facts

Display Size	5“	Operating Voltage	9-36V
Display Resolution	800x480	Operating Temperature	-20 to + 70°C
Brightness	850 cd/m²	Weight	500g
Touchscreen	Projected Capacitive	Interfaces	1x CAN, 29x IO

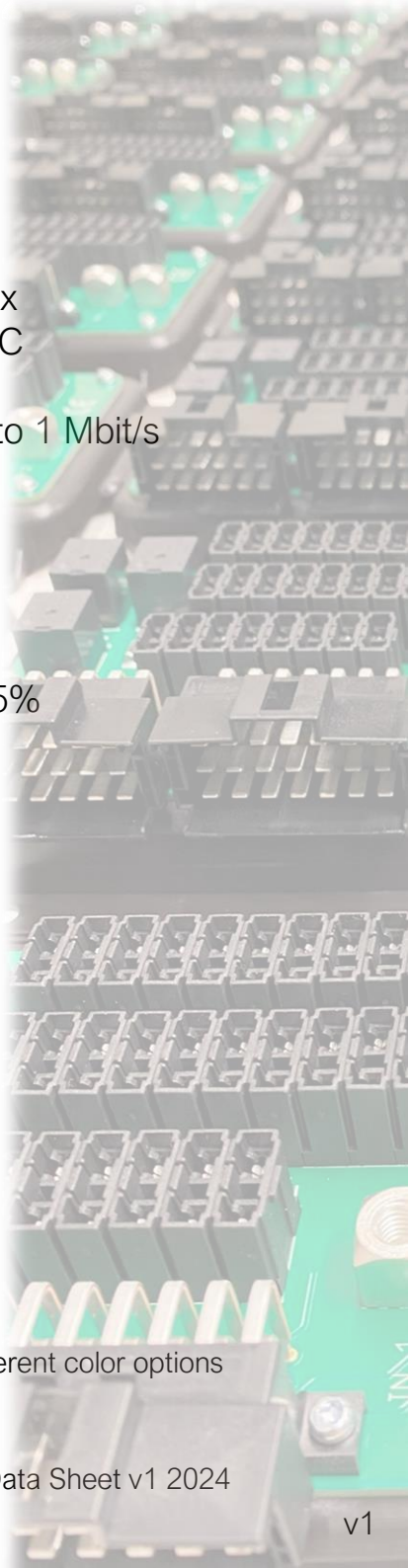
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Specifications

Display Size	5“	Display Resolution	800 x 480 px
Supply Voltage	9-36V	Operating Temprature	-20 to + 70°C
Weight	500g	Brightness	850 cd/m²
Touchscreen	Projected Capacitive	Interfaces CAN	1x CAN up to 1 Mbit/s
Mounting	8 Hole Flange	Panel	TFT IPS
Viewing angle	85° each direction	Flash Memory size	512Mb
Material Screen	1,1mm Glass	Material Housing	ABS
Connector	TE 2-6447232-3	Optical Bonding	yes
Protection rate	IP67	Program Flash size	128 Kb
IO	6 PWM out highside 2A, 2 Digital out highside 2A, 1 universal IO, 9 Analog In 0..10V; 8x mit zuschaltbarem 500 Ohm Widerstand für 0..20mA Eingang, 8 Digital In (3x mit zuschaltbarem 4k7 pull-up für Widerstandsmessung), 1 Frequenz In, 1 Analog out, 1 3A out highside	Battery voltage measurement	Build in +/- 5%
Color	Black*		

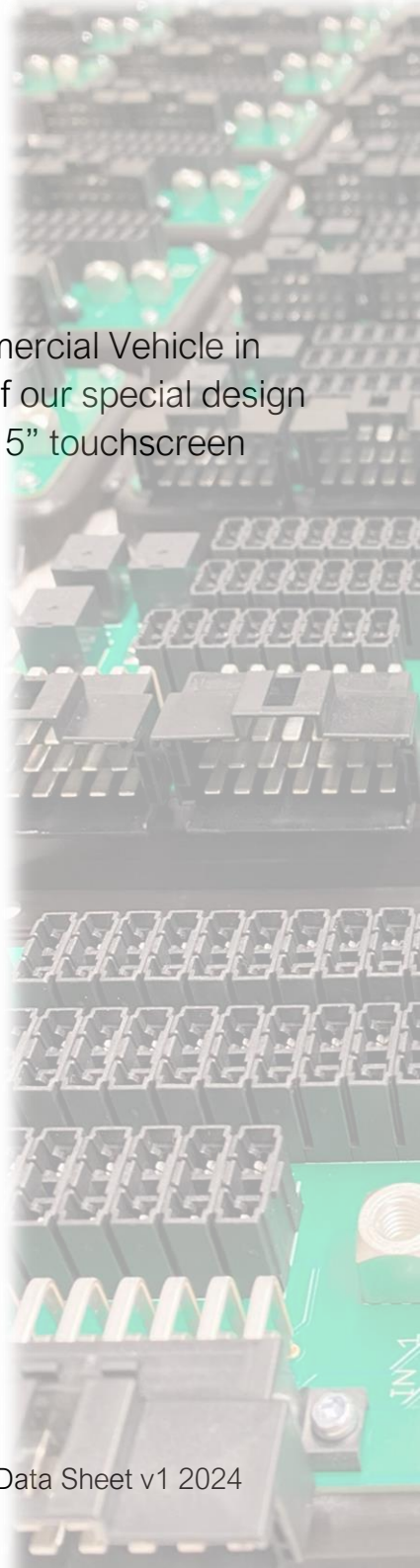
*ask for different color options



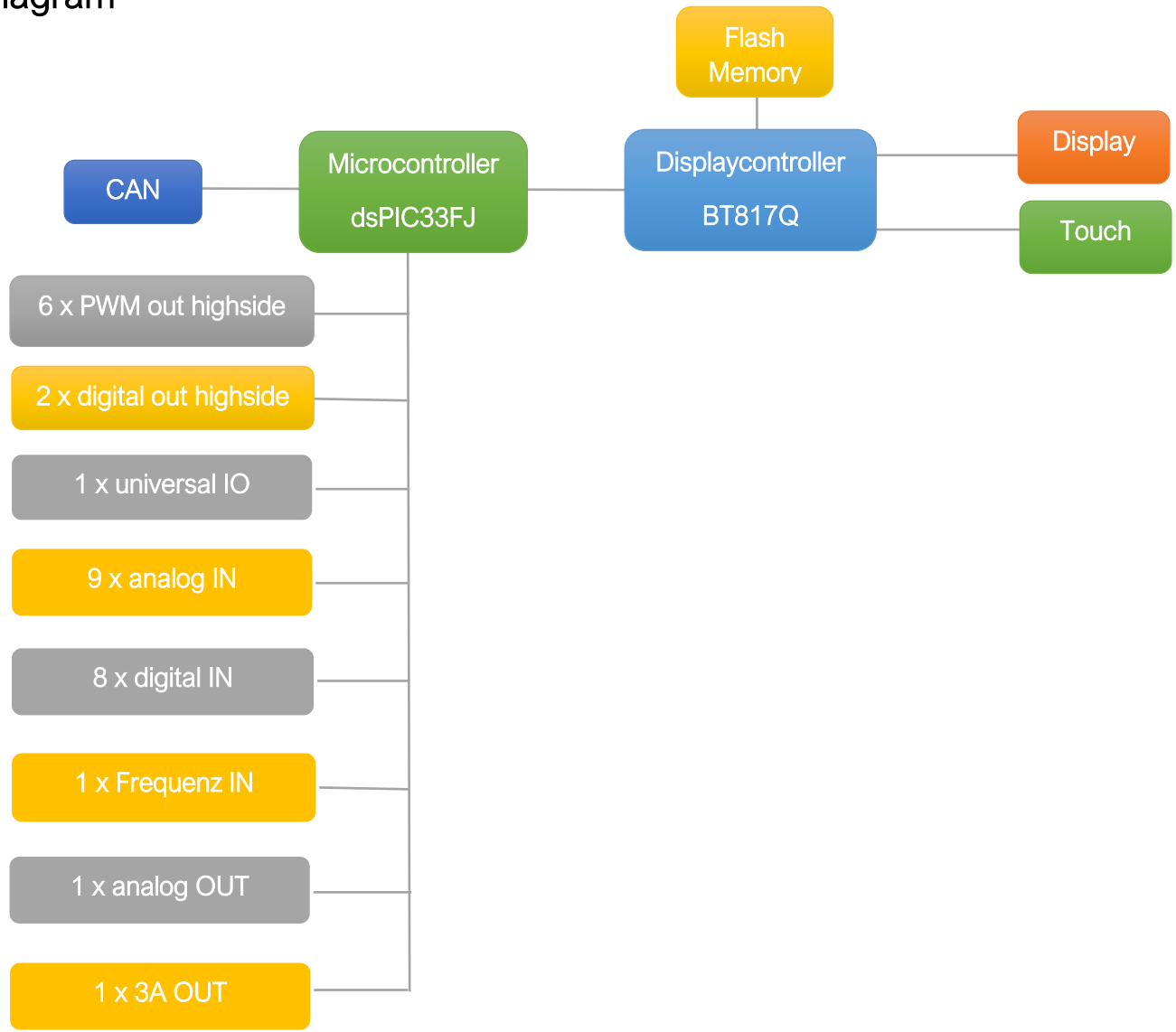
Description

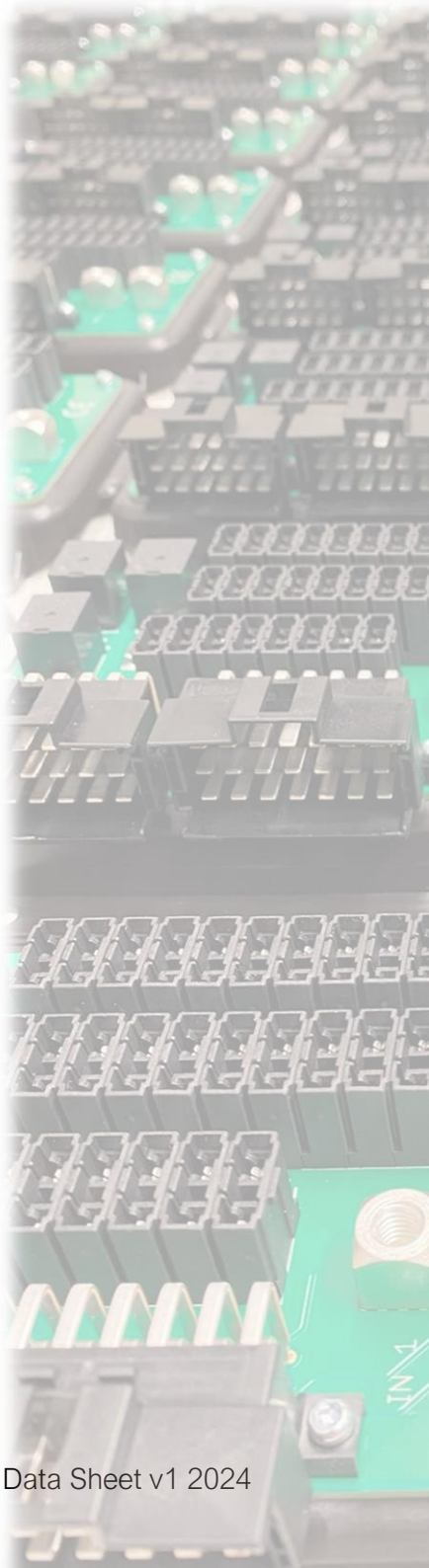
The CANDi5 is designed to display operators' information on agriculture or construction machinery or commercial Vehicle in general. With its projected capacitive touchscreen, it is designed to work in harsh environments. Because of our special design with a dedicated graphic controller combined with a small microcontroller we can provide you a performant 5" touchscreen Display for an affordable price.

Optional mit optical bonding erhältlich.



Block Diagram





Characteristics

Communication

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

IO

6 x unabhängige PWM Ausgänge mit 2 configurierbaren timern, highside, max. 2A.

2 x digital out, highside, max.2A.

1 x universal IO, 1A out highside, analog in 0.. 6,6V

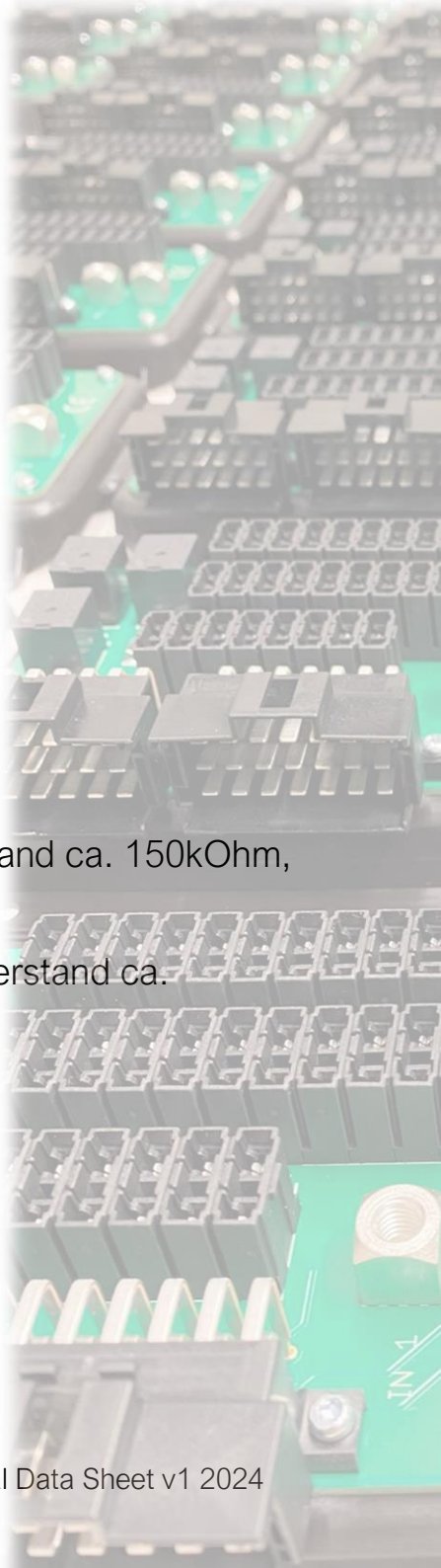
9 x analog in; 0 .. 10V, davon 8 x mit zuschaltbarem 500 Ohm Widerstand für 0 .. 20mA. Eingangswiderstand ca. 150kOhm, Eingangskapazität ca. 50pF.

8 x digital in, davon 3 x mit zuschaltbarem pull-up Widerstand 47k für Widerstandsmessung. Eingangswiderstand ca. 150kOhm, Eingangskapazität ca. 50pF.

1 x Frequenz in, 0,1Hz bis 100kHz.

1 x analog out, 0 .. 30V, short circuit current 200mA.

1 x 3A out, highside.



Mating Connector

Superseal 1.0, Receptacle Housing: TE 4-1437290-0,

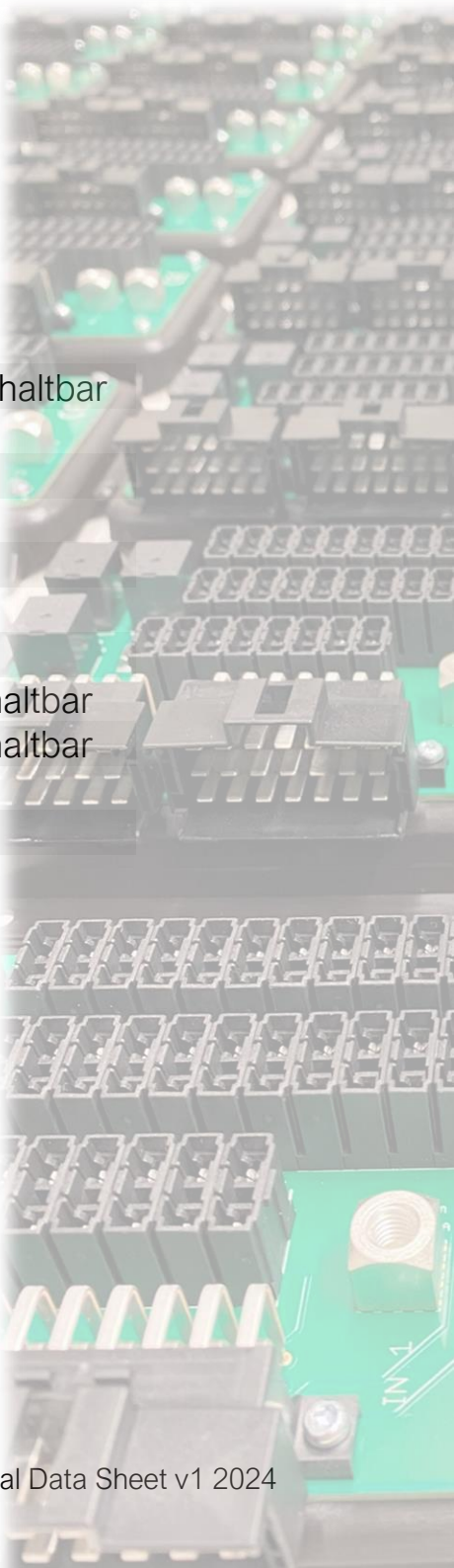
Receptacle	Wire Size (mm²)	Insulation Diameter (mm)	finish
3-1447221-5	0.3	1.4-1.7	Finish Copper alloy Gold over nickel (contact part), Tin over Nickel (crimp area)
3-1447221-4	0.5	1.6-2.2	Copper alloy Gold over nickel (contact part), Tin over Nickel (crimp area)
3-1447221-3	0.75-0.85	1.6-2.4	Copper alloy Gold over nickel (contact part), Tin over Nickel (crimp area)
3-1447221-3	1.25	1.9-2.2	Copper alloy Gold over nickel (contact part), Tin over Nickel (crimp area)

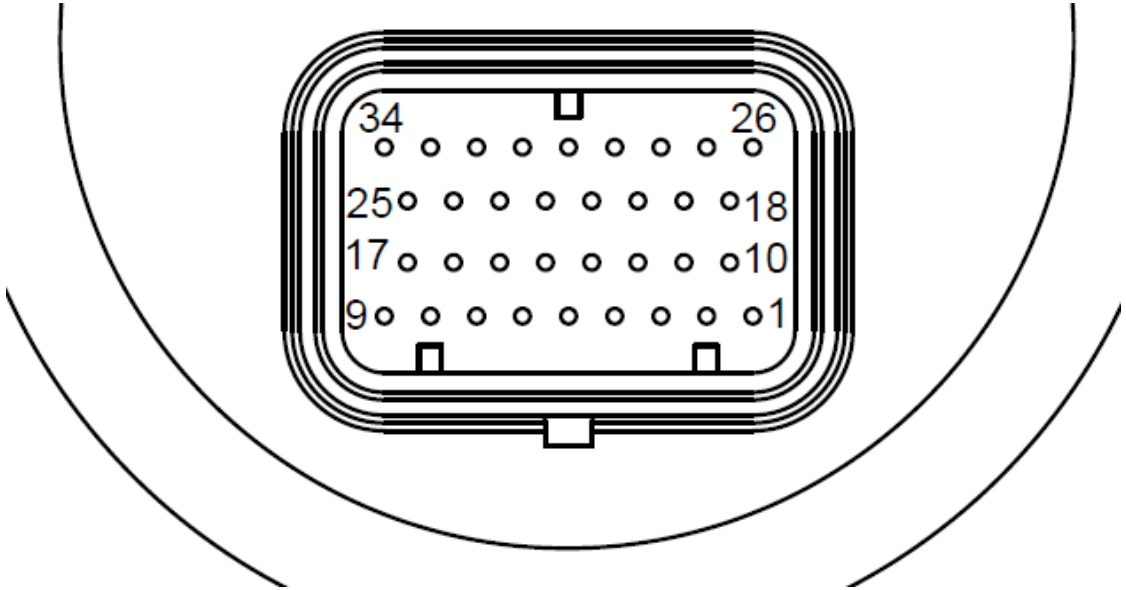


Pinout

PIN	Function
1	2A PWM OUT 4; highside
2	2A PWM OUT 3; highside
3	2A PWM OUT 2; highside
4	2A PWM OUT 1; highside
5	2A DOUT 2; highside
6	2A DOUT 1; highside
7	Ground
8	1,4A IO 1; highside
9	+Vin
10	2A PWM OUT 5; highside
11	Analog In 6; 500 Ohm zuschaltbar
12	Analog In 5; 500 Ohm zuschaltbar
13	Analog In 4; 500 Ohm zuschaltbar
14	Analog In 3; 500 Ohm zuschaltbar
15	Analog In 2; 500 Ohm zuschaltbar
16	Analog In 1; 500 Ohm zuschaltbar
17	+Vin
18	2A PWM OUT 6; highside
19	Digital In 6
20	Digital In 5
21	Digital In 4
22	Digital In 3; 4k7 pull-up zuschaltbar
23	Digital In 2; 4k7 pull-up zuschaltbar

PIN	Function
24	Digital In 1; 4k7 pull-up zuschaltbar
25	Frq IN
26	3A OUT; highside
27	Analog OUT 1
28	Digital In 7
29	Digital In 8
30	Analog In 7
31	Analog In 8; 500 Ohm zuschaltbar
32	Analog In 9; 500 Ohm zuschaltbar
33	CAN-H
34	CAN-L





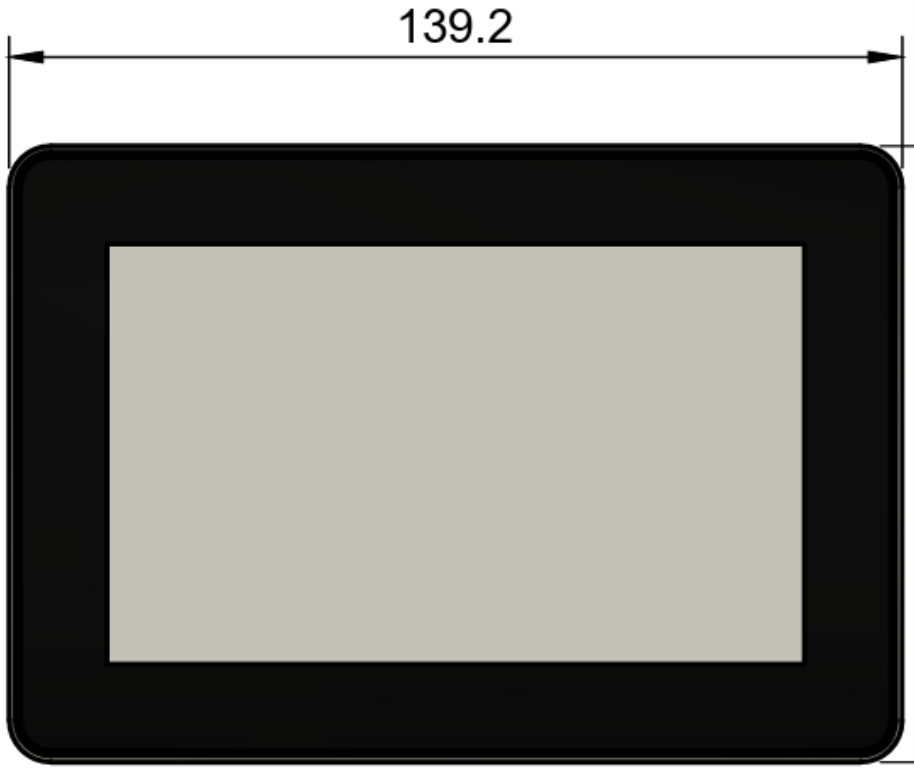
Programming

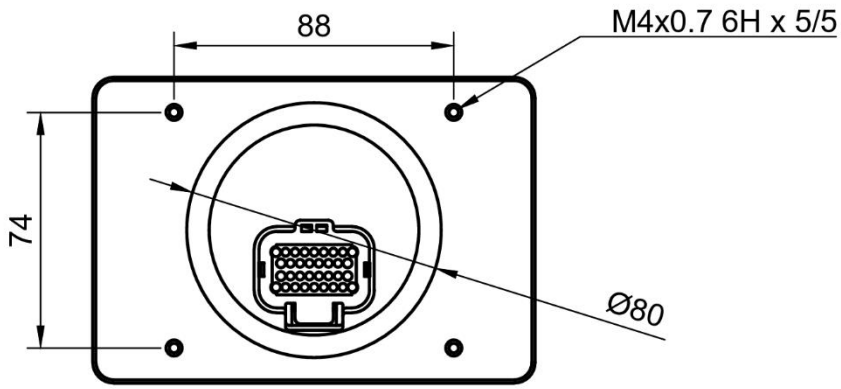
To program the CANDi5 it is recommended to use the toolchain from Bridgetech for the BT817Q graphic controller (EVE Asset builder) and the toolchain from Microchip for the dsPIC33 (MPLAB-X and XC16).

The CANDi5 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

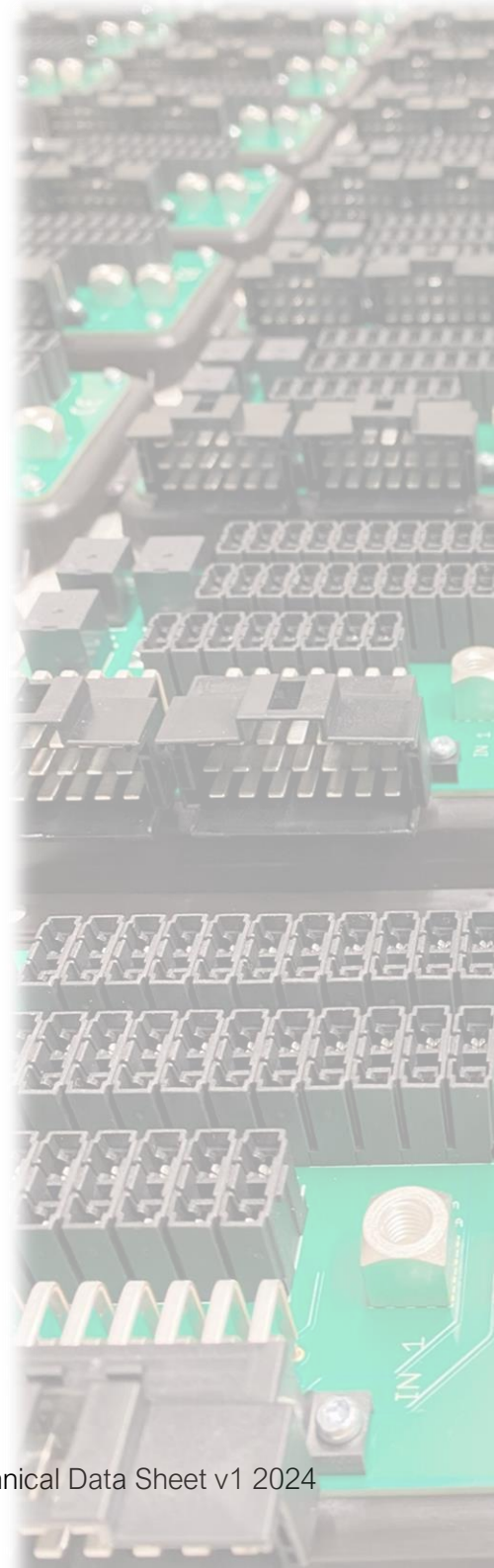






All values in mm.

Ask CVEP for 3D-Model.

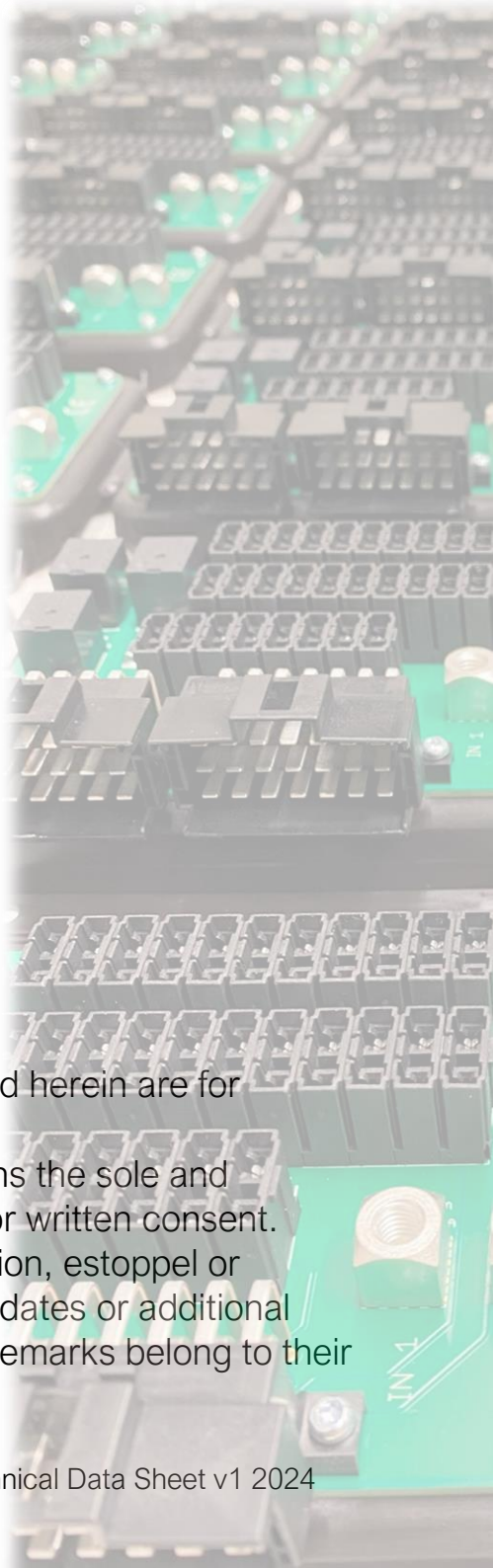


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