



CANDi4T

CAN Touchscreen



Short Facts

Display Size	3.5"	Operating Voltage	9-36V
Display Resolution	320x480px	Operating Temperature	-20 to + 70°C
Brightness	1200 cd/m²	Weight	250g
Touchscreen	Projected Capacitive	Interfaces	1x CAN, 1x LIN

TECHNICAL DATASHEET

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Specifications

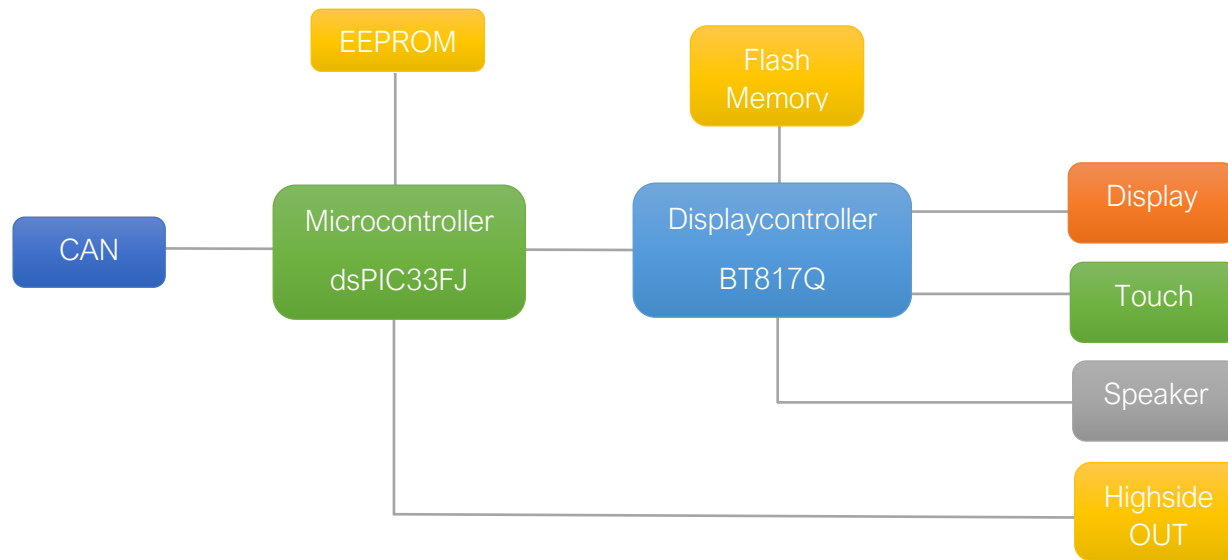
Display Size	3.5"	Display Resolution	320 x 480 px
Supply Voltage	9-36V	Operating Temperature	-20 to + 70°C
Weight	250g	Brightness	1200 cd/m²
Touchscreen	Projected Capacitive	Interfaces CAN	1x CAN up to 1 Mbit/s 1x LIN
Mounting	Panel mount	Panel	TFT IPS
Viewing angle	85° each direction	Flash Memory size	4Mb
Material Screen	1,1mm Glass	Material Housing	Aluminum
Connector	M12 5p A-Code Molex Micro-Fit 6p Molex Mini-Fit Jr. 10p	Optical Bonding	yes
Protection rate	IP44 (IP65 from front side with Gasket)	Program Flash size	128 Kb
EEPROM	256 kbit	Battery voltage measurement	Build in +/- 5%
Color	Black*	Keypad	CVEP Hexswitch

*ask for different color options

Description

The CANDi4T 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 3.5" touchscreen Display for an affordable price. Below the Screen in our Hexswitch Keypad mounted. The Hexswitch Keypad is independent from the display electronics but J3 or J1 can be used to connect the CAN and source the Keypad with Power. The Hexswitch Keypad is available with many different icons.

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

3x analog in 0-5V.

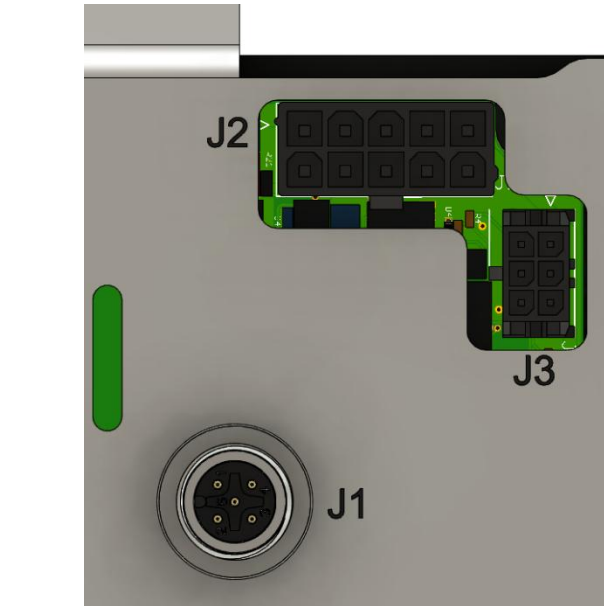
Pinout

J1

PIN	Function
1	V+ Battery Power supply
2	LIN
3	GND
4	CAN-L*
5	CAN-H*

J2

PIN	Function
1	AIN3 analog input 0-5V and short to Pin2
2	AIN3 analog input 0-5V and short to Pin 1
3	LIN also on J1 Pin 2
4	V+ Battery Power supply
5	V+ Battery Power supply
6	GND
7	GND
8	GND
9	CAN-L*
10	CAN-H*



J3

PIN	Function
1	V+ Battery Power supply
2	AIN1 analog in 0-5V
3	CAN-H*
4	AIN2 analog in 0-5V
5	GND
6	CAN-L*

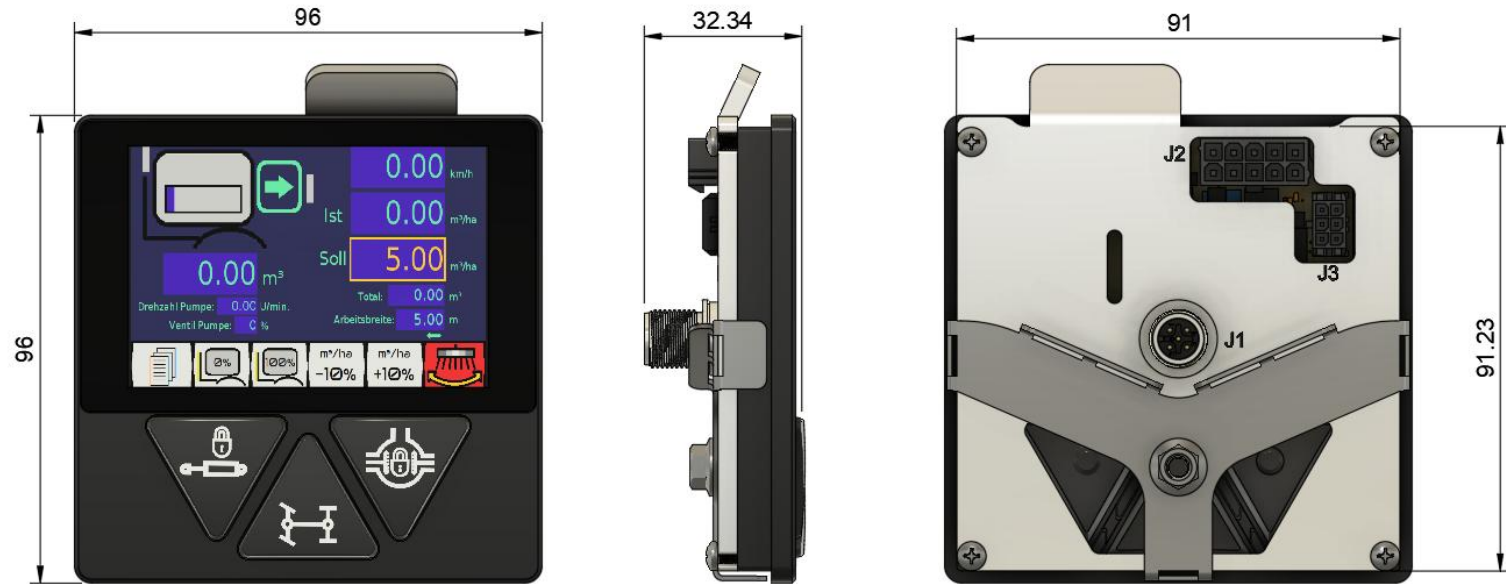
*CAN signals on all connectors is the same CAN. All GND is internally connected. All V+ is internally connected. AIN3 is internally connected. All internally connected signals max. 9A on J2 and max. 4A on J1 and J3. AIN3 is on J2 Pin 1 and 2 but it is only one input.

Programming

To program the CANDi4T 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

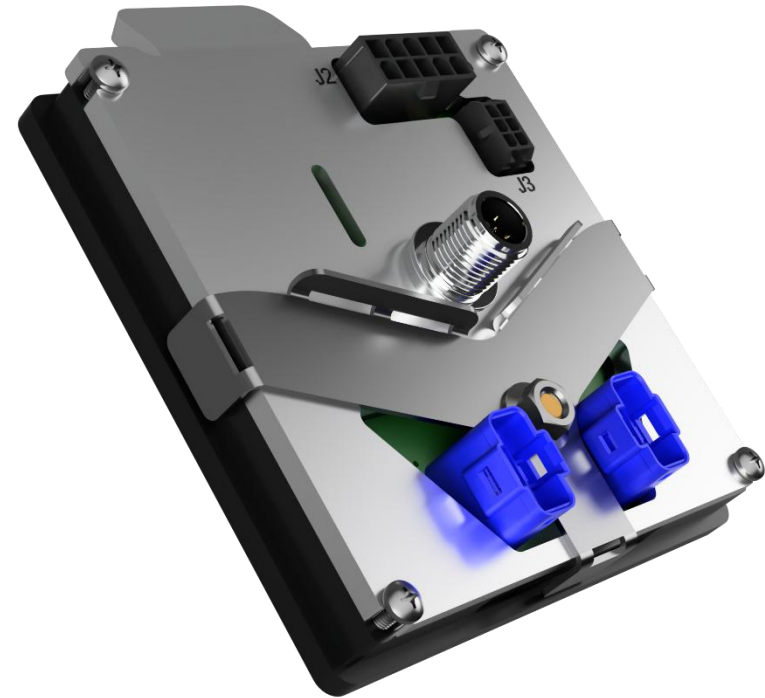


All values in mm.

Ask CVEP for 3D-Model.



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Disclaimer

Products, drawings, information, specifications and reference numbers (hereafter “contents”) discussed herein are for reference purposes only. All contents herein are provided on an “as is” basis, without warranties of any kind. The Content remains the sole and exclusive property of CVEP and may not be translated or copied in whole or in part without CVEP's prior written consent. No license to any patent, copyright, trademark or other intellectual property right is granted by implication, estoppel or otherwise in this document. Contents may be changed or modified by CVEP without any notice. For updates or additional information about CVEP products, please contact us. All brand names, registered trademarks and trademarks belong to their respective owners.



Display Size	7"
Display Resolution	1024x600
Brightness	850 cd/m²
Touchscreen	Projected Capacitive

Operating Voltage	9-36V
Operating Temperature	-20 to + 70°C
Weight	380g
Interfaces	1x CAN, 1x IO

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Specifications

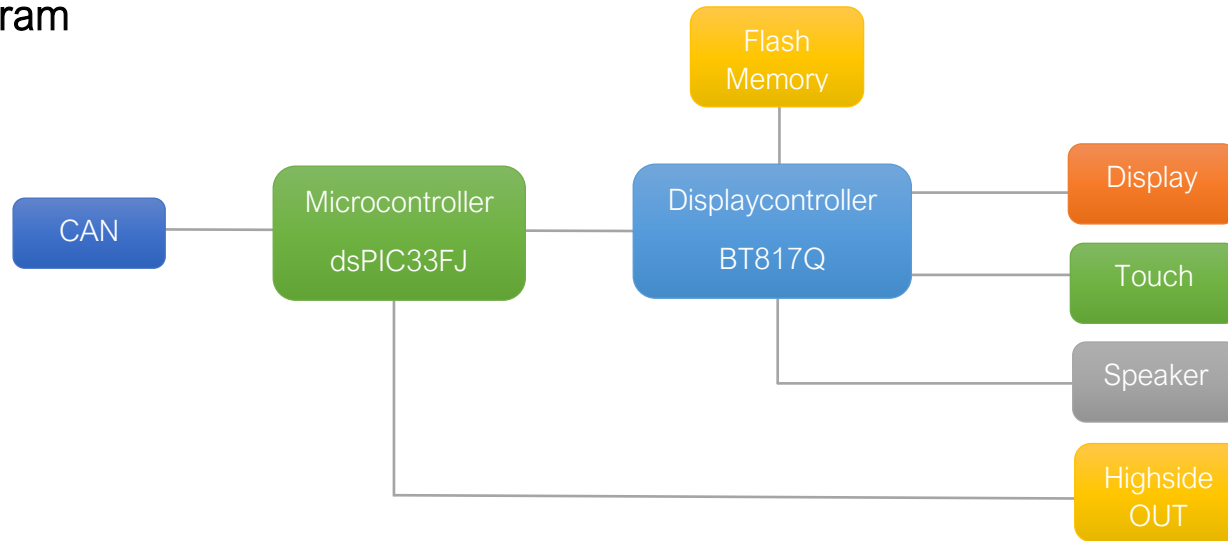
Display Size	7"	Display Resolution	1024 x 600 px
Supply Voltage	9-36V	Operating Temperature	-20 to + 70°C
Weight	380g	Brightness	850 cd/m ²
Touchscreen	Projected Capacitive	Interfaces CAN	1x CAN up to 1 Mbit/s
Mounting	8 Hole Flange	Panel	TFT IPS
Viewing angle	85° each direction	Flash Memory size	512Mb
Material Screen	1,1mm Glass	Material Housing	ABS
Connector	EDAC 560-005-420-301	Optical Bonding	yes
Protection rate	IP67	Program Flash size	128 Kb
GPIO	0-10V input or 1A Highside OUT	Battery voltage measurement	Build in +/- 5%
Color	Black*		

*ask for different color options

Description

The CANDi7 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 7" touchscreen Display for an affordable price.

Block Diagram



Characteristics

Communication

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

IO

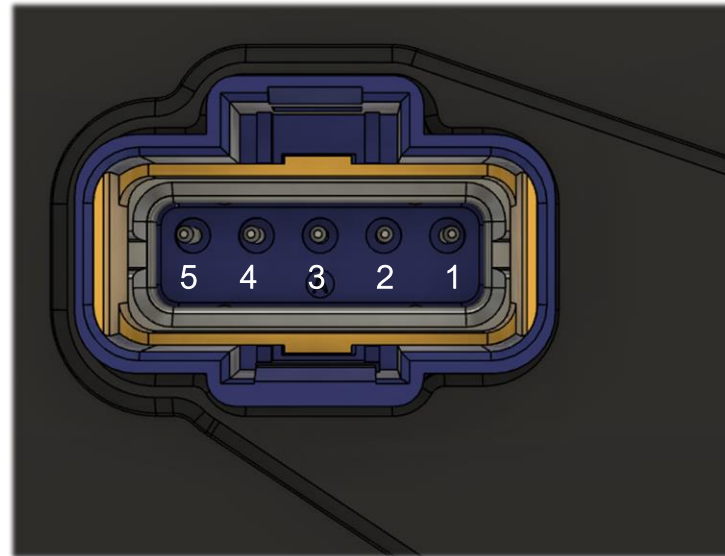
The CANDi7 has one universal IO Pin. It is possible to use it as analog input with a range from 0-10V with 12bit resolution. The output is a self-protected highside driver. Maximum load is 1A.

Mating Connector

On harness side EDAC 560-005-000-411 with wires from Ø1.3mm to Ø1.7mm or 560-005-000-410 with wires from Ø1.0mm to Ø1.3mm. Mating contact is 565-290-741 or 565-290-741. Waterproofing cap is 565-200-100.

Pinout

PIN	Function
1	V+ Battery Power supply
2	IO1
3	GND Battery Ground
4	CAN-L
5	CAN-H



Programming

To program the CANDi7 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 CANDi7 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

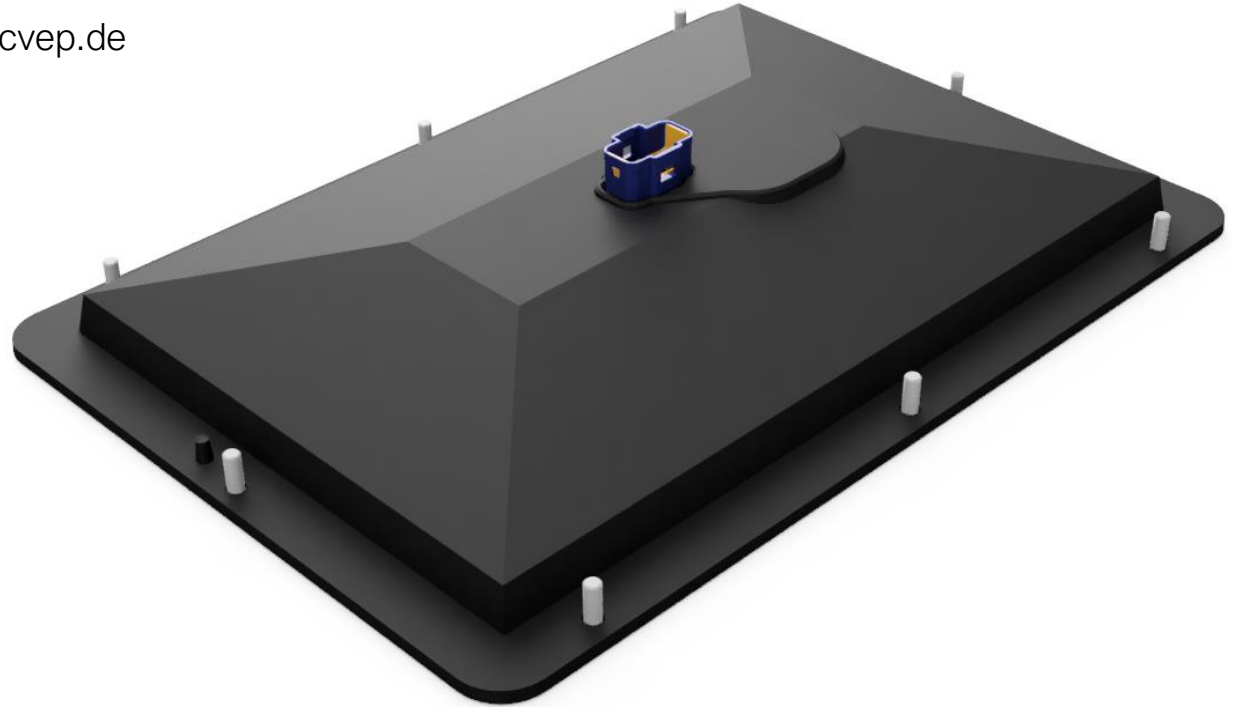


All values in mm.

Ask CVEP for 3D-Model.



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Products, drawings, information, specifications and reference numbers (hereafter “contents”) discussed herein are for reference purposes only. All contents herein are provided on an “as is” basis, without warranties of any kind. The Content remains the sole and exclusive property of CVEP and may not be translated or copied in whole or in part without CVEP's prior written consent. No license to any patent, copyright, trademark or other intellectual property right is granted by implication, estoppel or otherwise in this document. Contents may be changed or modified by CVEP without any notice. For updates or additional information about CVEP products, please contact us. All brand names, registered trademarks and trademarks belong to their respective owners.



CANDi4s

CAN Touchscreen



TECHNICAL DATASHEET

Short Facts

Display Size	3.5"	Operating Voltage	9-36V
Display Resolution	320x480px	Operating Temperature	-20 to + 70°C
Brightness	1200 cd/m²	Weight	250g
Touchscreen	Projected Capacitive	Interfaces	1x CAN, 1x LIN

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Specifications

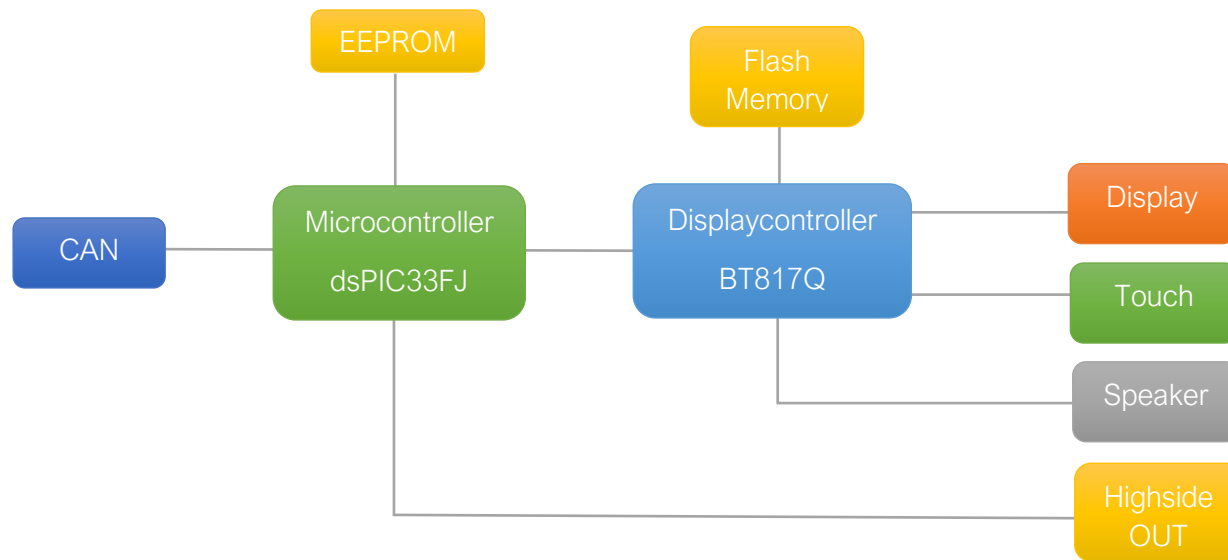
Display Size	3.5"	Display Resolution	320 x 480 px
Supply Voltage	9-36V	Operating Temperature	-20 to + 70°C
Weight	250g	Brightness	1200 cd/m ²
Touchscreen	Projected Capacitive	Interfaces CAN	1x CAN up to 1 Mbit/s 1x LIN
Mounting	2x M5	Panel	TFT IPS
Viewing angle	85° each direction	Flash Memory size	4Mb
Material Screen	1,1mm Glass	Material Housing	Aluminium
Connector	M12 5p A-Code	Optical Bonding	yes
Protection rate	IP68	Program Flash size	128 Kb
EEPROM	256 kbit	Battery voltage measurement	Build in +/- 5%
Color	Black*		

*ask for different color options

Description

The CANDi4s 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 3.5" touchscreen Display for 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.

Pinout

PIN	Function
1	V+ Battery Power supply
2	LIN
3	GND
4	CAN-L
5	CAN-H

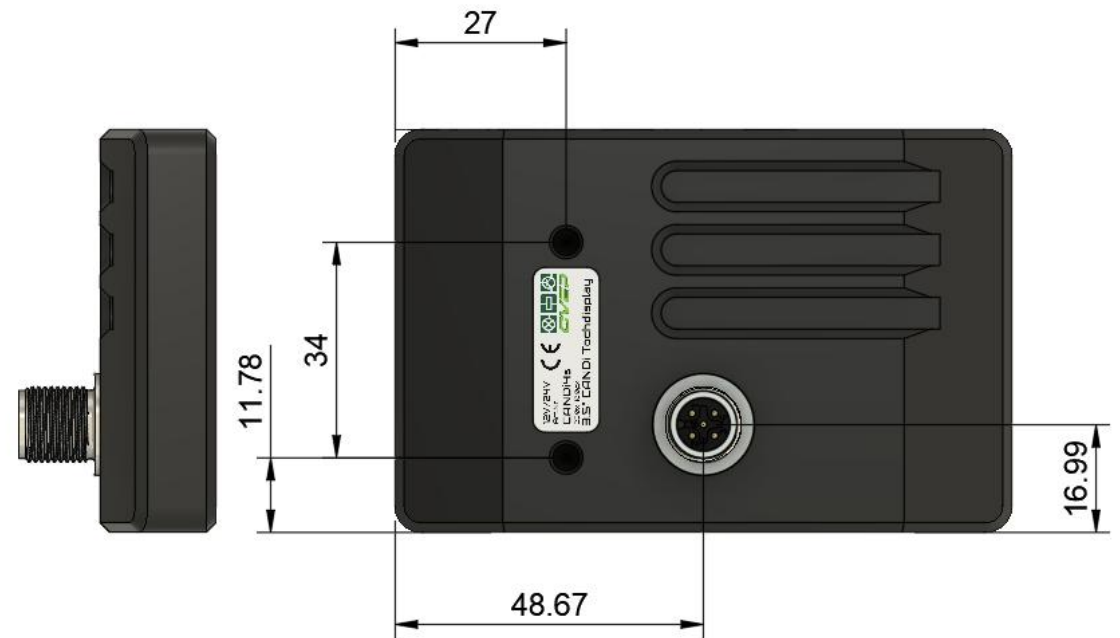
Programming

To program the CANDi4s 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 CANDi4s 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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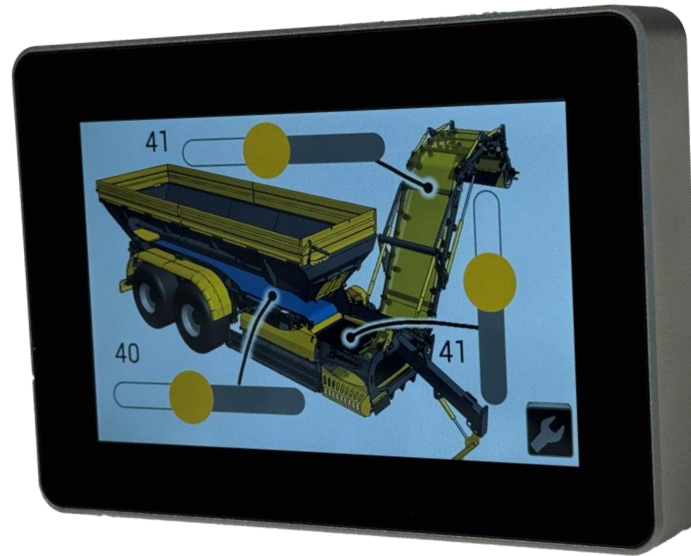
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CANDi5

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/m ²	Weight	500g
Touchscreen	Projected Capacitive	Interfaces	1x CAN, 29x IO

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Specifications

Display Size	5"
Supply Voltage	9-36V
Weight	500g
Touchscreen	Projected Capacitive
Mounting	8 Hole Flange
Viewing angle	85° each direction
Material Screen	1,1mm Glass
Connector	TE 2-6447232-3
Protection rate	IP67
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
Color	Black*

Display Resolution	800 x 480 px
Operating Temperature	-20 to + 70°C
Brightness	850 cd/m²
Interfaces CAN	1x CAN up to 1 Mbit/s
Panel	TFT IPS
Flash Memory size	512Mb
Material Housing	ABS
Optical Bonding	yes
Program Flash size	128 Kb
Battery voltage measurement	Build in +/- 5%

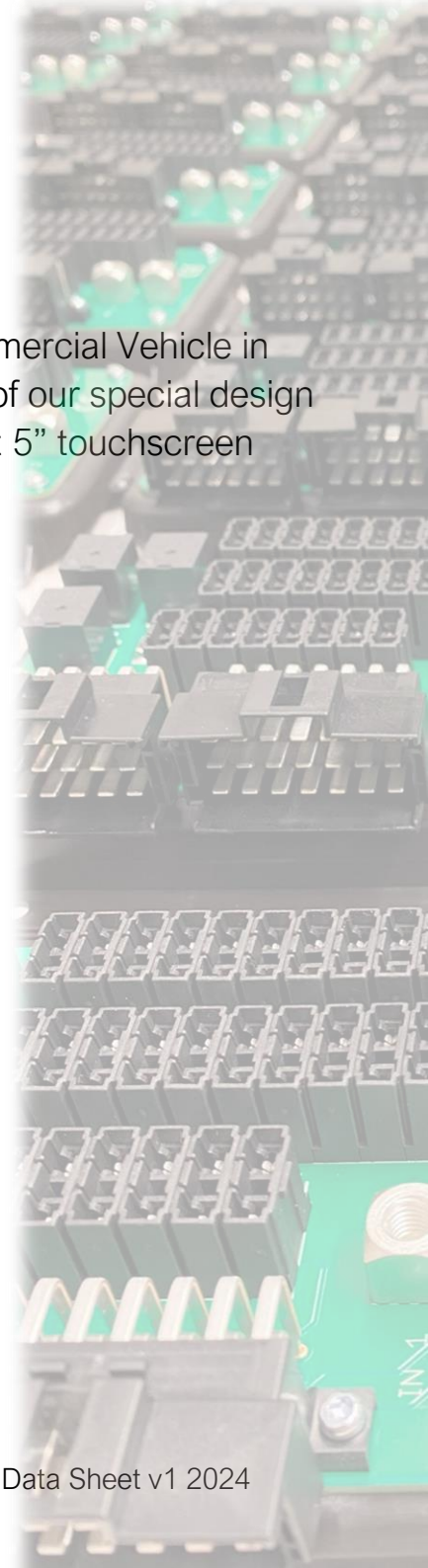
*ask for different color options



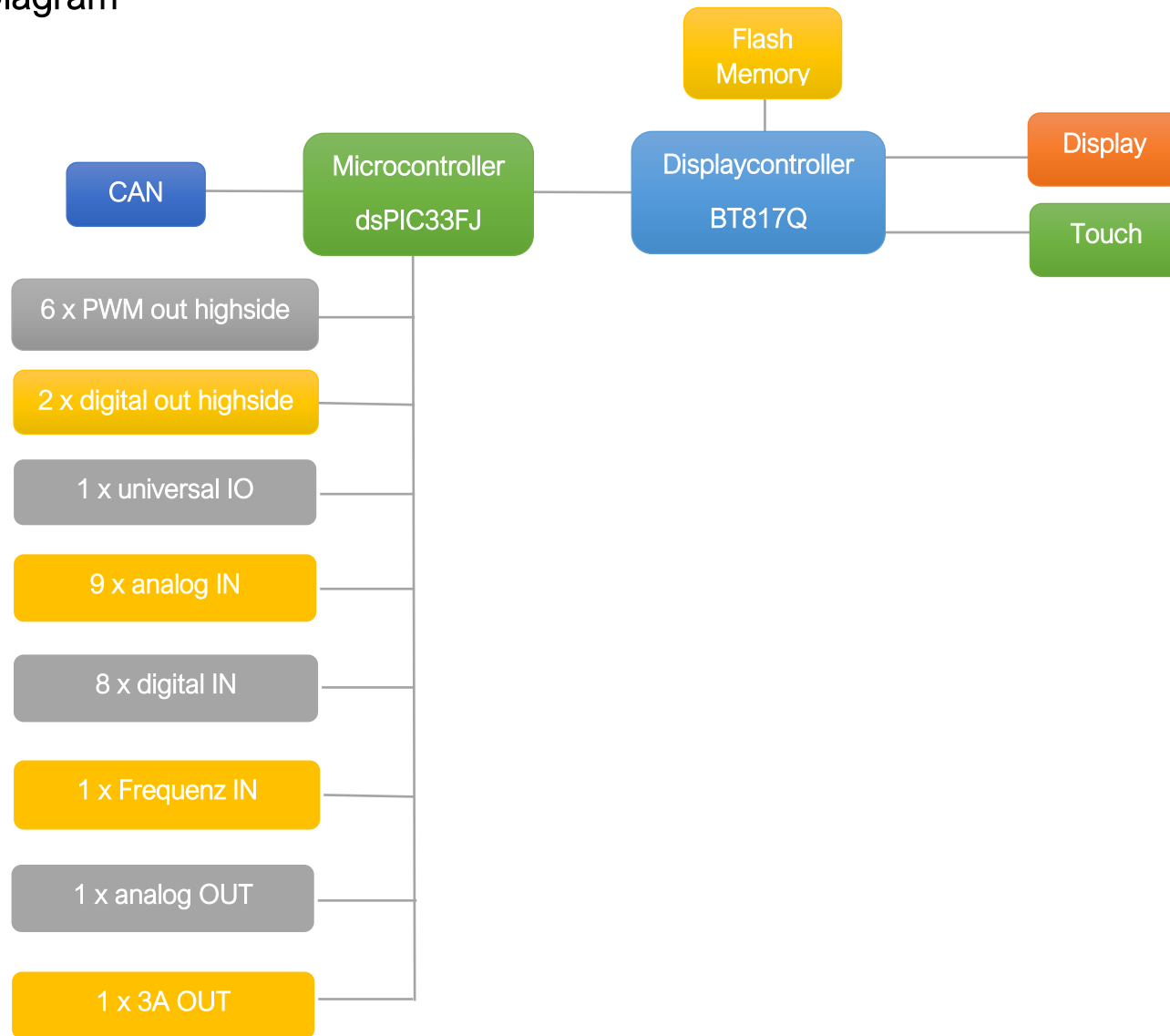
Description

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 konfigurierbaren timern, highside, max. 2A.

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

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

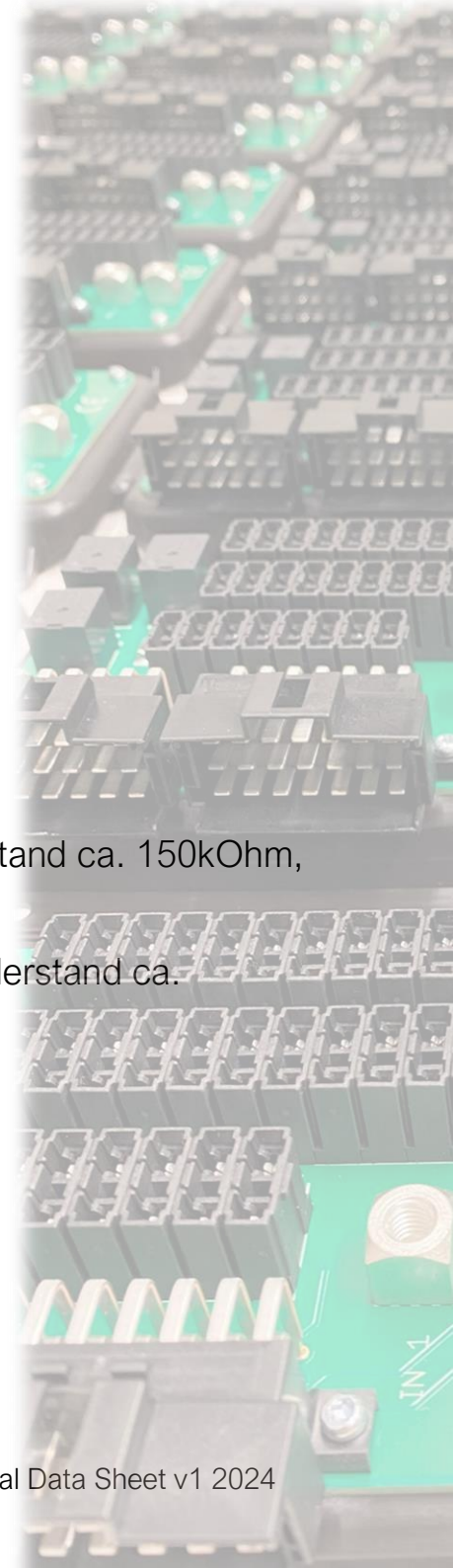
9 x analog in; 0 .. 10V, davon 8 x mit zuschaltbarem 500 Ohm Widerstand für 0 .. 20mA. Eingangswiderstand ca. 150kOhm, Eingangskapazität ca. 50pF.

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

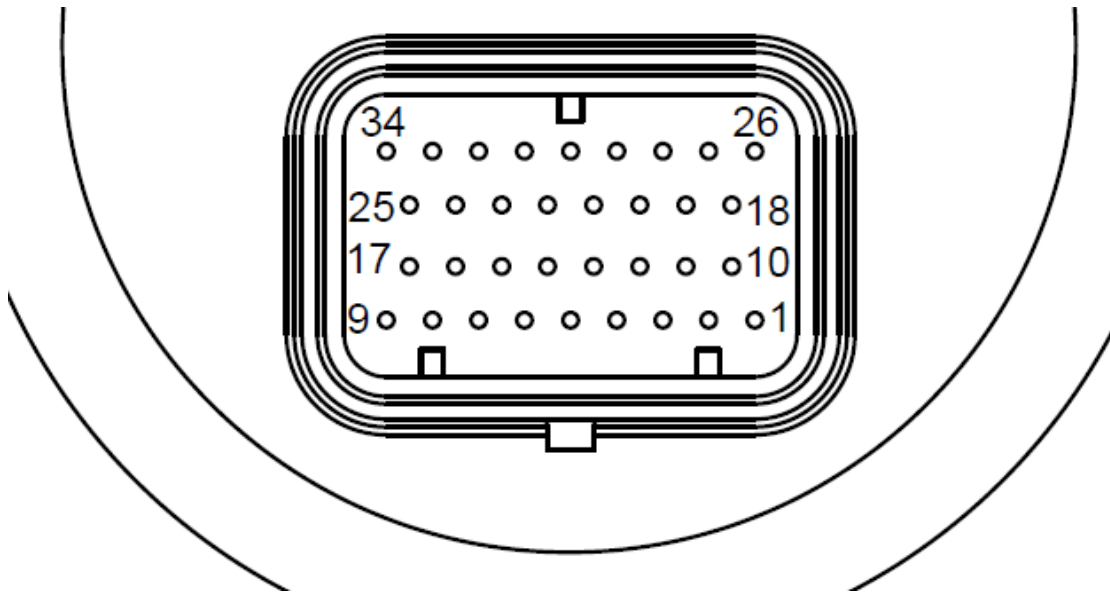
Superseal 1.0, Receptacle Housing: TE 4-1437290-0,

Receptacle	Wire Size (mm ²)	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

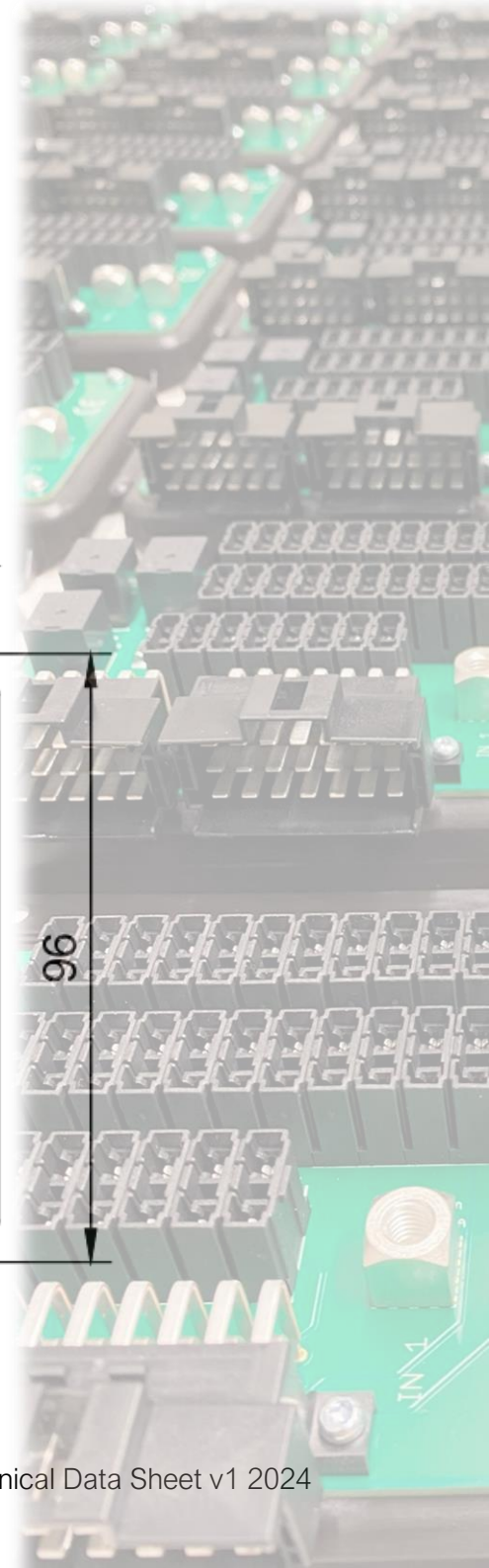
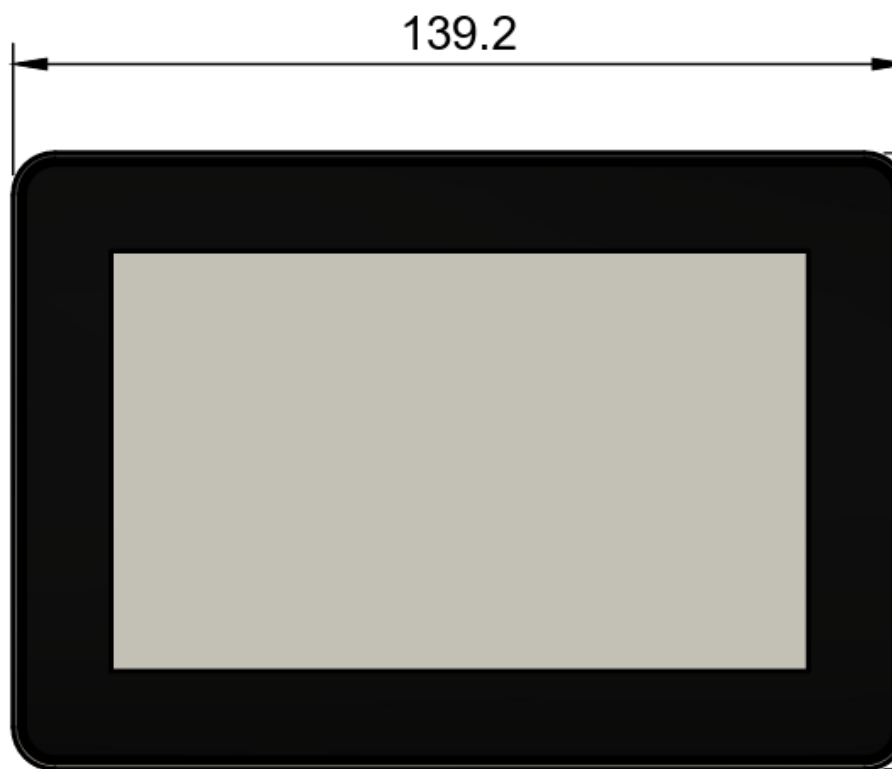


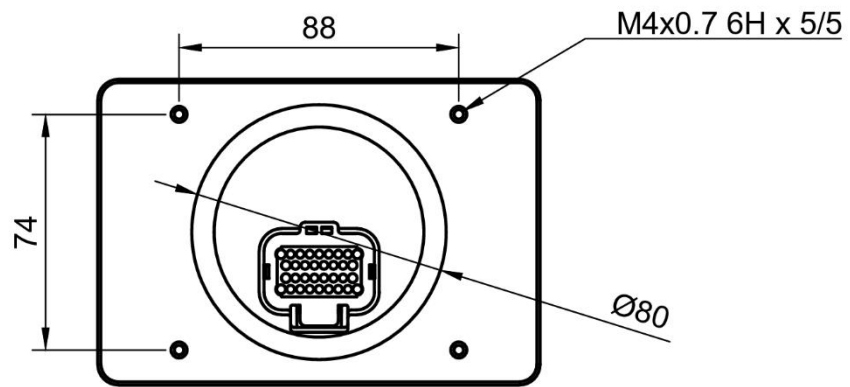
Programming

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.



CANDiCon25

CAN Touchscreen



Short Facts

Display Size	2x 5"
Display Resolution	2x 800x480px
Brightness	850 cd/m ²
Touchscreen	Projected Capacitive

Operating Voltage	9-36V
Operating Temperature	-20 to + 70°C
Weight	450g
Interfaces	2x CAN, 1x LIN, 1x iO

TECHNICAL DATASHEET

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Specifications

Display Size	2x 5"	Display Resolution	2x 800 x 480 px
Supply Voltage	9-36V	Operating Temperature	-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

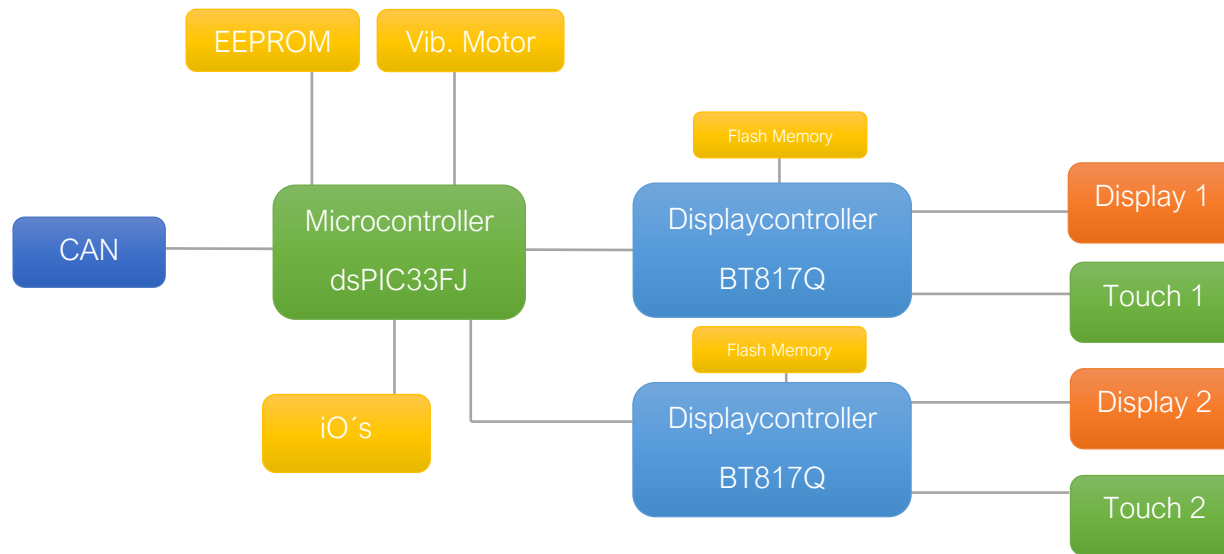
Description

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

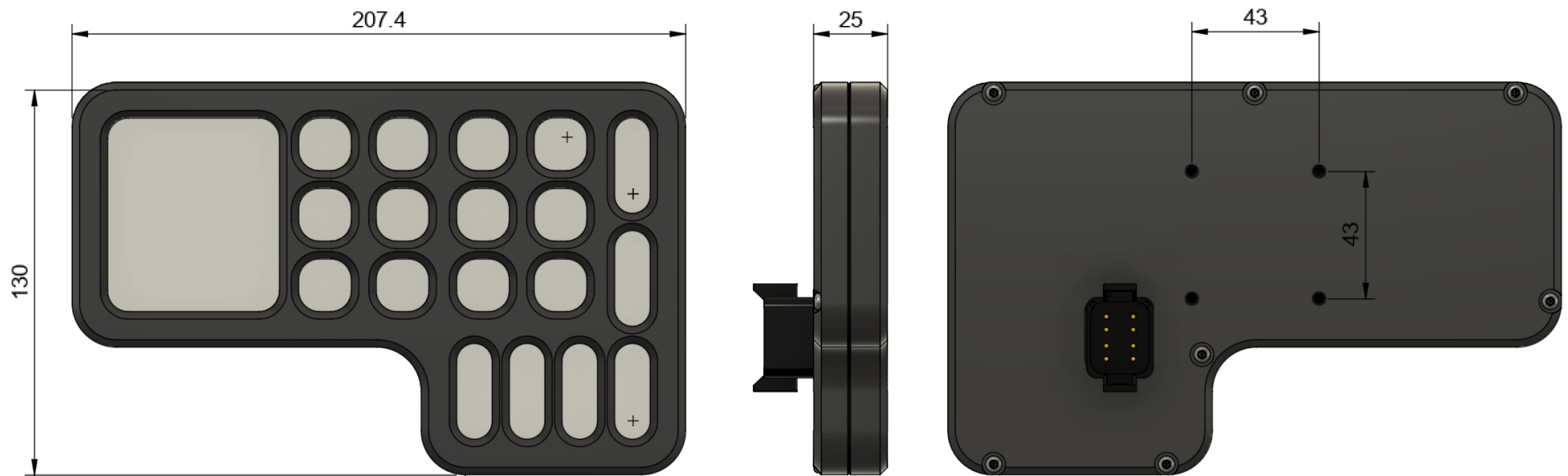


Programming

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.



CANDiCon743

CAN Control Terminal



Short Facts

Display Size	7" + 4,3"
Display Resolution	1024x600px + 480x727
Brightness	850 cd/m²
Touchscreen	Projected Capacitive

Operating Voltage	9-36V
Operating Temperature	-20 to + 70°C
Weight	450g
Interfaces	2x CAN, 1x LIN, 1x iO

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Specifications

Display Size	7" + 4.3"	Display Resolution	1024x800px + 480x272
Supply Voltage	9-36V	Operating Temperature	-20 to + 70°C
Weight	650g	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	7" yes, 4,3" 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

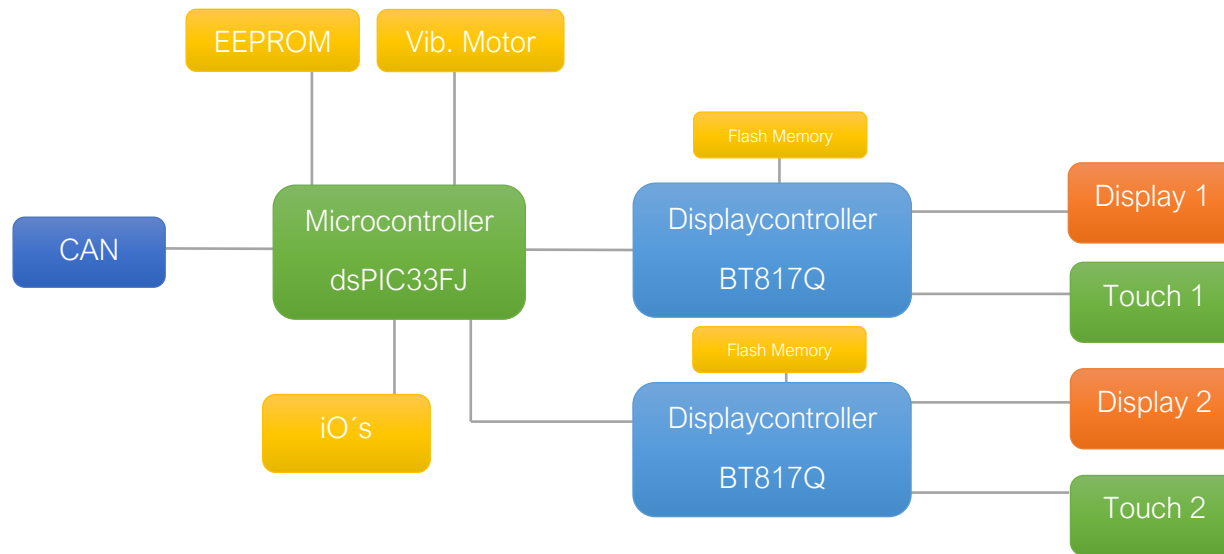
Description

The CANDiCon743 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 7" 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

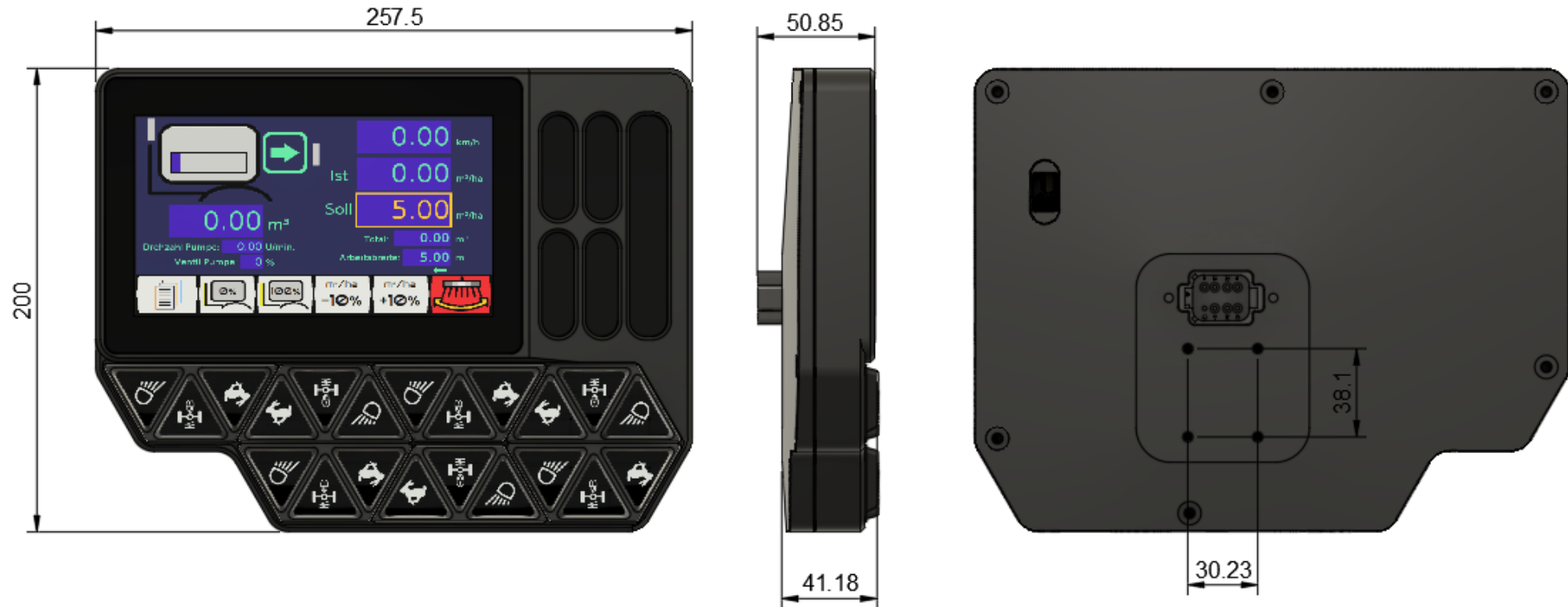


Programming

To program the CANDiCon743 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 CANDiCon743 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.