# CDC1700S, COMPACT DISPLAY CONTROLLER

CDC1700S is compact sized combined display and I/O module.

Compact Display Controller can be used in different kinds of control and diagnostic situations. CDC1700S can also be connected to larger control systems via a CAN bus.


The CDC1700S features:

- 32 bit RISC microcontroller
- Internal RTC (Real Time Clock)
- 5,7" VGA colour TFT Display
- 44-pin AMP Super Seal I/O connector with totally 31 configurable I/O lines
- 2 RS232 serial ports
- USB host
- Optional 2nd CAN port
- Optional plug/cable shield

| Technical data | |
|---|---|
| Housing | Aluminium, IP34 |
| Main dimensions (w x l x h) | 167 mm x 138 mm X 31 mm |
| Mounting | 4 x M5 / RAM Mount |
| Weight | 0,95 kg |
| Display | 5,7" VGA TFT colour display (resolution 640 x 480) |
| Memory | 32 MB RAM; 8 MB Flash |
| Operating voltage | 9 - 36 V |
| Operating temperature | -30 °C - +60 °C (-40 °C - +70 °C storage) |
| Current consumption | < 200 mA (without external load) |
| **CAN interface** | |
| Baud rate | 250 kbaud (Default) |
| Communication protocol | CAN interface 2.0 B, ISO 11898, CANopen |
| **Analog / Digital Input** | 8 pcs, 0 - 15,6 V / 0 - 52 mA (selectable with software)<br>input resistance 104 kΩ to GND / 300 Ω to GND<br>Over Load Protection, current limitation at 22 mA |
| **Digital Input** | 11 pcs (9 pcs if CAN2 is used)<br>input resistance 10 kΩ to GND, low < 3,5 V ; high > 5 V |
| **Digital / PWM Output / Input** | 4 pcs High side driver (max 2 A)<br>input resistance 10 kΩ to GND. DI low < 3,5 V ; high > 5 V |
| **DO / DI / Proportional Output** | 8 pcs High side driver (max 2 A)<br>input resistance 10 kΩ to GND. DI low < 3,5 V ; high > 5 V |
| **Serial connections** | 115 kbaud max |

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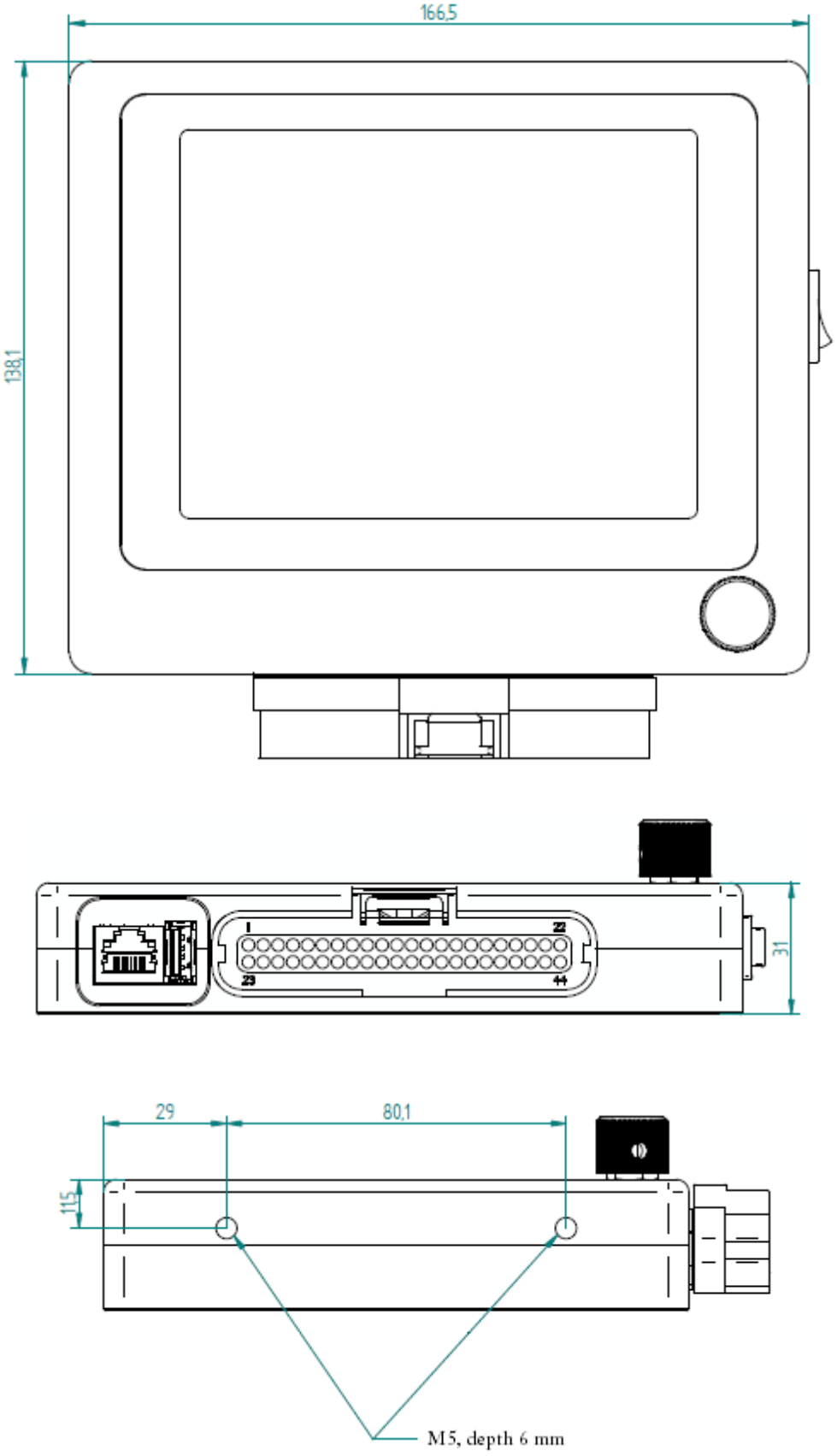
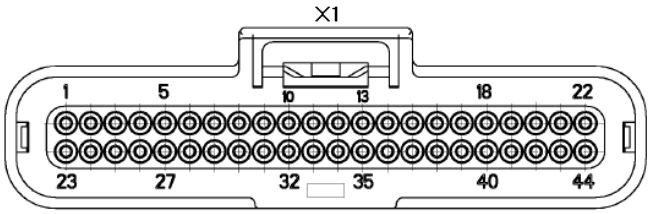
## Housing dimensions:



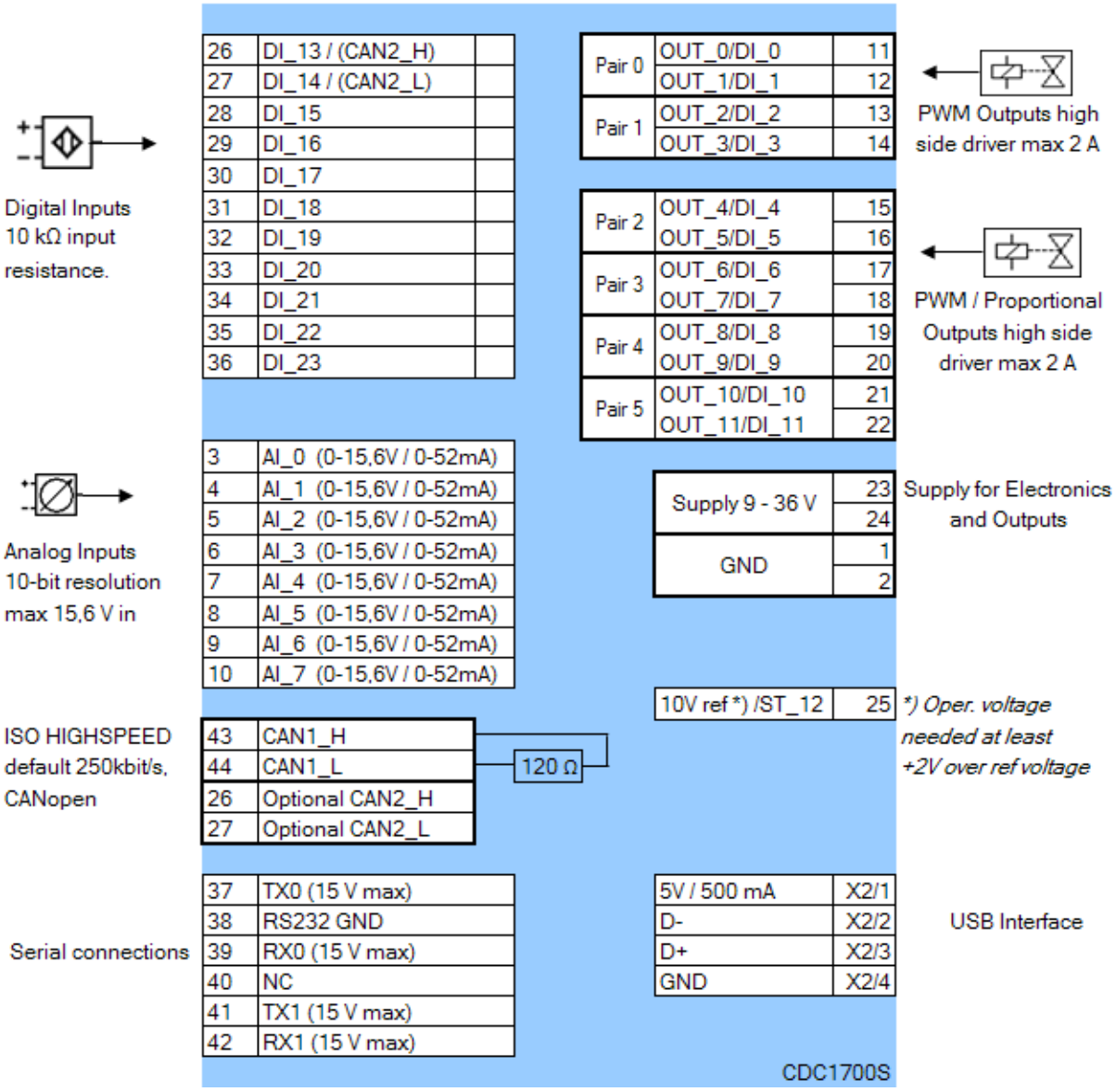
**Connector structure** (view from outside):



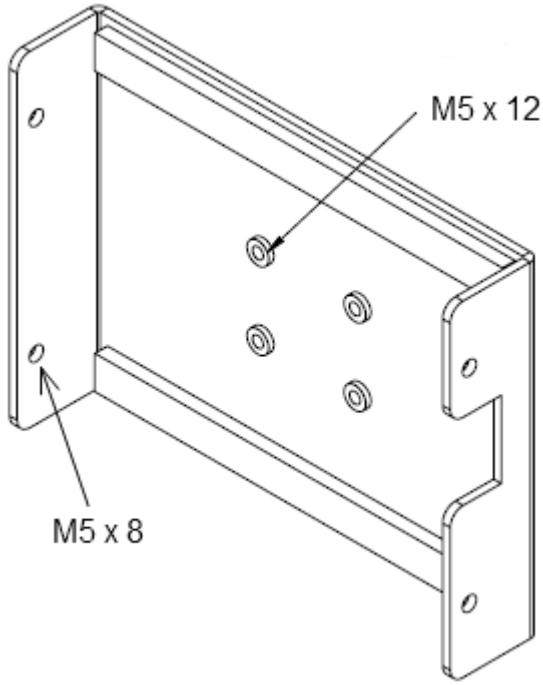

44-pin AMP Super Seal connector: AMP 1376886-1 or AMP 2-1447232-6

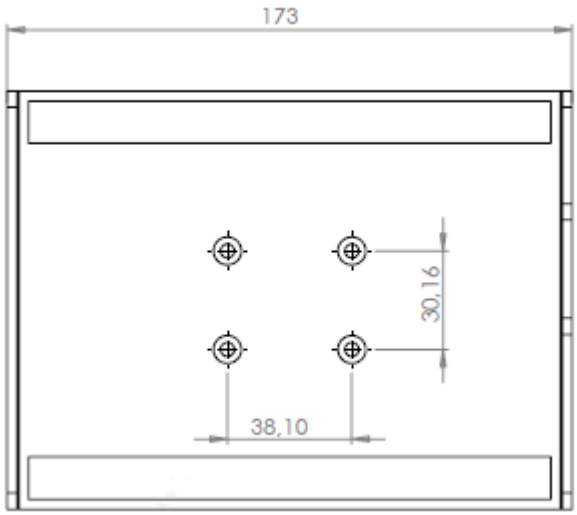
AMP Super Seal female contacts (0,75 - 1,25 $mm^2$): AMP 3-1447221-3

**Block diagram:**

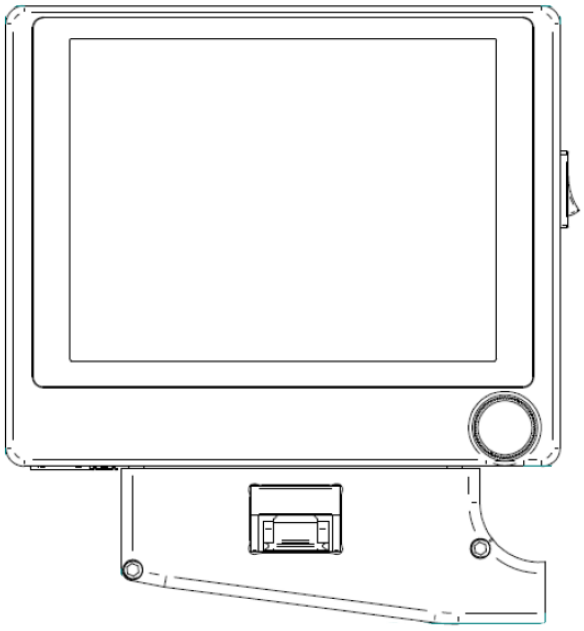


## CDC1700S / CDC1700S1 RAM mount fixing frame (TU143)




## Optional connector housing cover (TU136)



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