

# MID070S Multi Information Display

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- 10/100BaseT Ethernet
- 2x CAN interfaces
- 1x USB Interfaces
- 2x RS232
- 4x Video Inputs
- 37 configurable I/O's
- Programmable via Guitu
- Designed for operation at both 12V and 24V
- Real Time Clock

MID070S is embedded Linux controller with display. MID070S combines traditional I/O controller, human machine interface and datalogger in a robust and compact package. It also includes variety of interfaces which allows controller to be connected to different data sources.

MID070S is commonly used as a CAN network management master to control other nodes in CAN network and making system maintenance tasks very easy.

## Technical Information

- 9-32 VDC Operating voltage range  
(Protected against reverse polarity)
- -30...+70 °C operating temperature range
- 32-bit microprocessor
- 128 MB RAM
- 256 MB flash memory
- IP67 aluminium housing
- 7" WVGA colour TFT LCD display (resolution 800x480)
- Weight 1.4 kg
- Main dimensions 203 mm(w) x 153(h) mm x 42 mm(d)
- 2 x CAN Interface 2.0 B, ISO 11898
- 2 x Serial port interface RS232
- 1 x USB interface
- 4 x composite video Inputs
- Battery secured real time clock (RTC)
- Internal SD memory card slot (up to SDHC 32 GB supported)

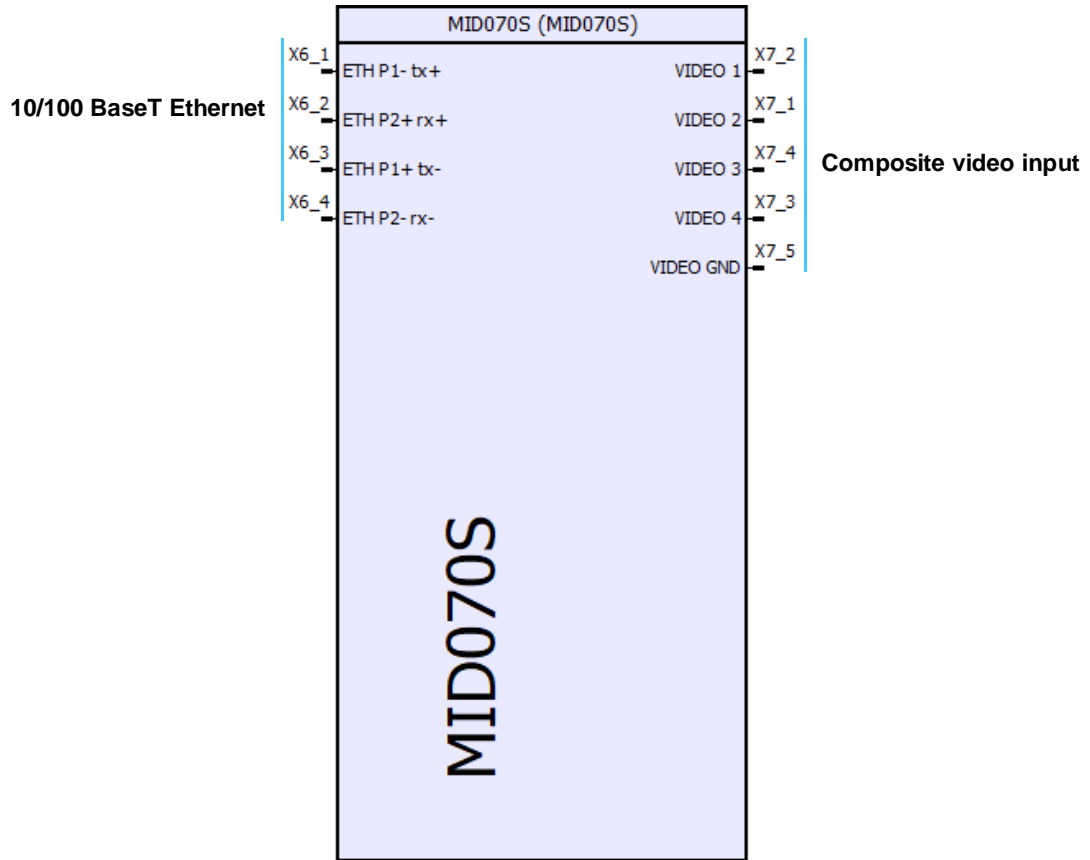
## I/O Interface

- Total of 37 configurable IO-lines
- Separate supply for outputs and electronics
- The I/O interface is protected against short to GND and to supply voltage
- Configurable reference voltage: 3.3V / 5V, max 250mA

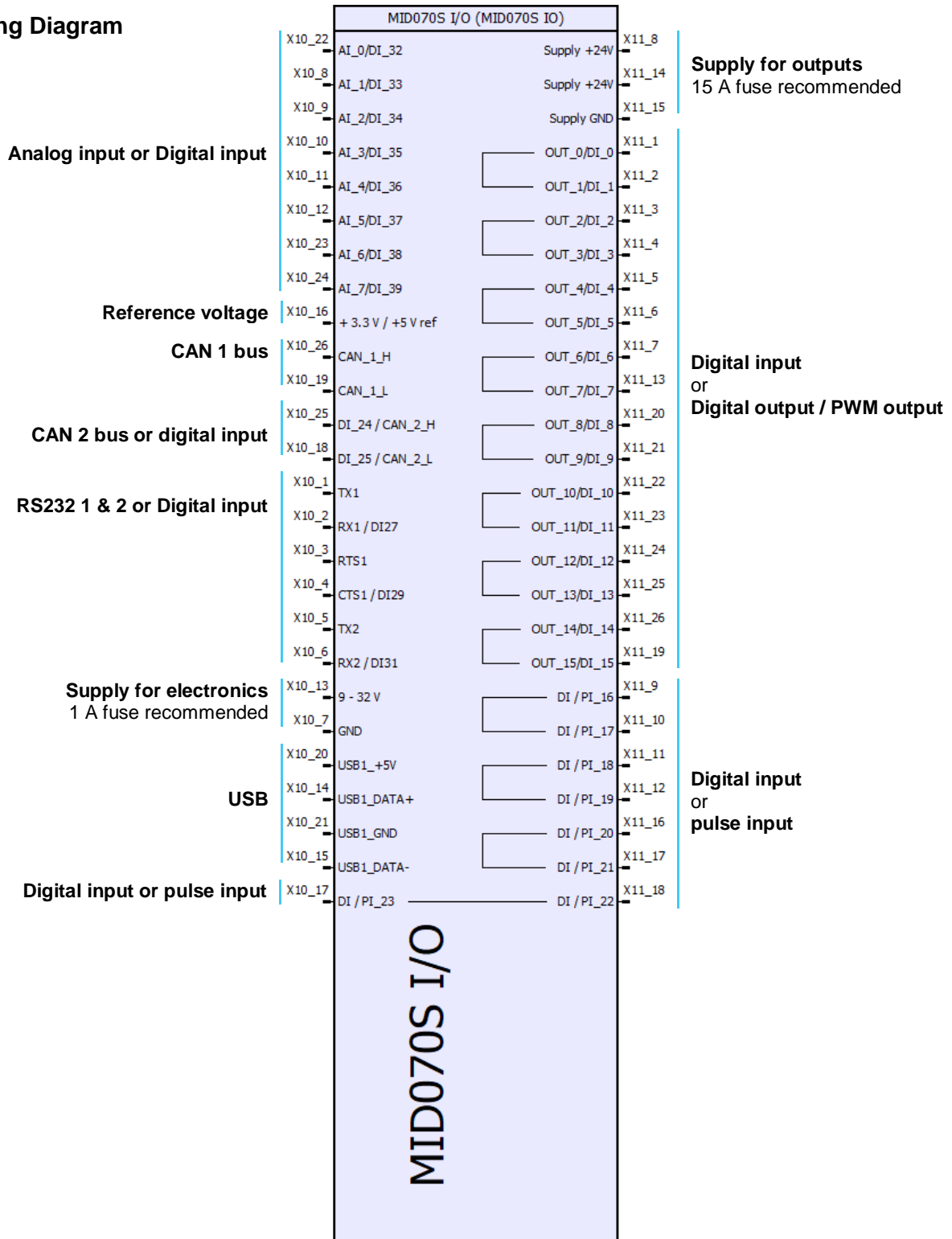
Amount	Configurability	Details
16	Digital input Digital output PWM output	PNP-type. Low < 2 V, High > 6,5 V, max 100 Hz High side driver, max 2,7 A High side driver, max 2,7 A
8	Digital input Pulse input	PNP-type. Low < 2 V, High > 6,5 V, max 100 Hz PNP-type. Low < 2 V, High > 6,5 V, max 8 kHz
8	Digital input Analog input	PNP-type. Low < 0,8 V, High > 1,6 V, max 100 Hz 12-bit AD conv., 0-5.2 V, 129 kΩ 0-22 mA, 150 Ω
5	Digital input	PNP-type. Low < 2 V, High > 6,5 V, max 100 Hz

Note. Using CAN2 bus or RS232 interface, consumes digital input pins.

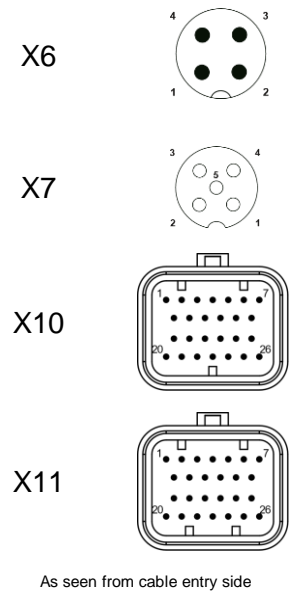
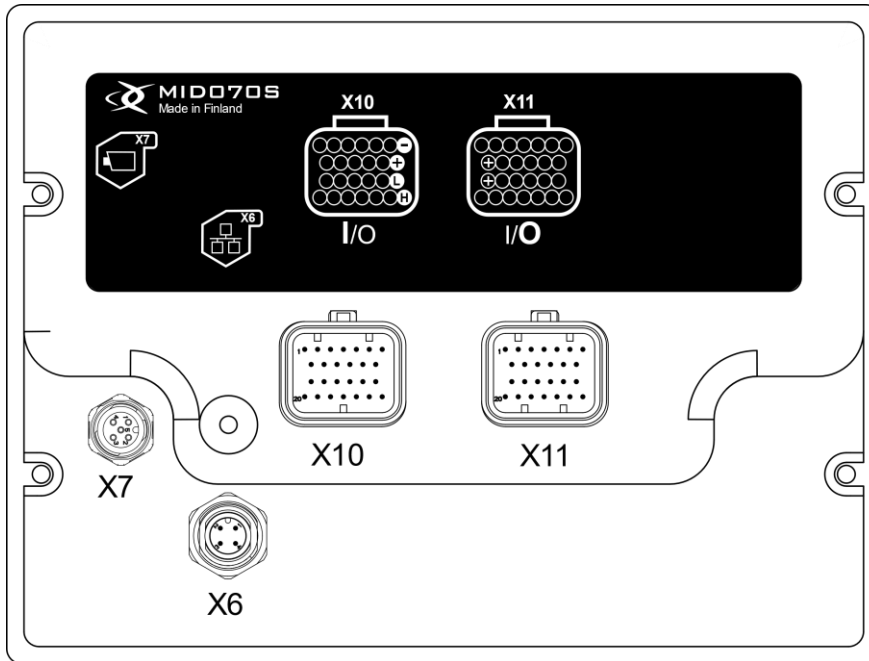
### Wiring Diagram



### Wiring Diagram



## Connectors



## M12 Connectors

M12 Connector needed:

X6: Ethernet	4 pin, Female A-coded
X7: Remote Display	5 pin, Male A-coded
Protective cap for Male M12*	Erni 374342
Protective cap for Female M12*	Erni 374343

\* Protective caps must be used on unused connectors to reach waterproofness

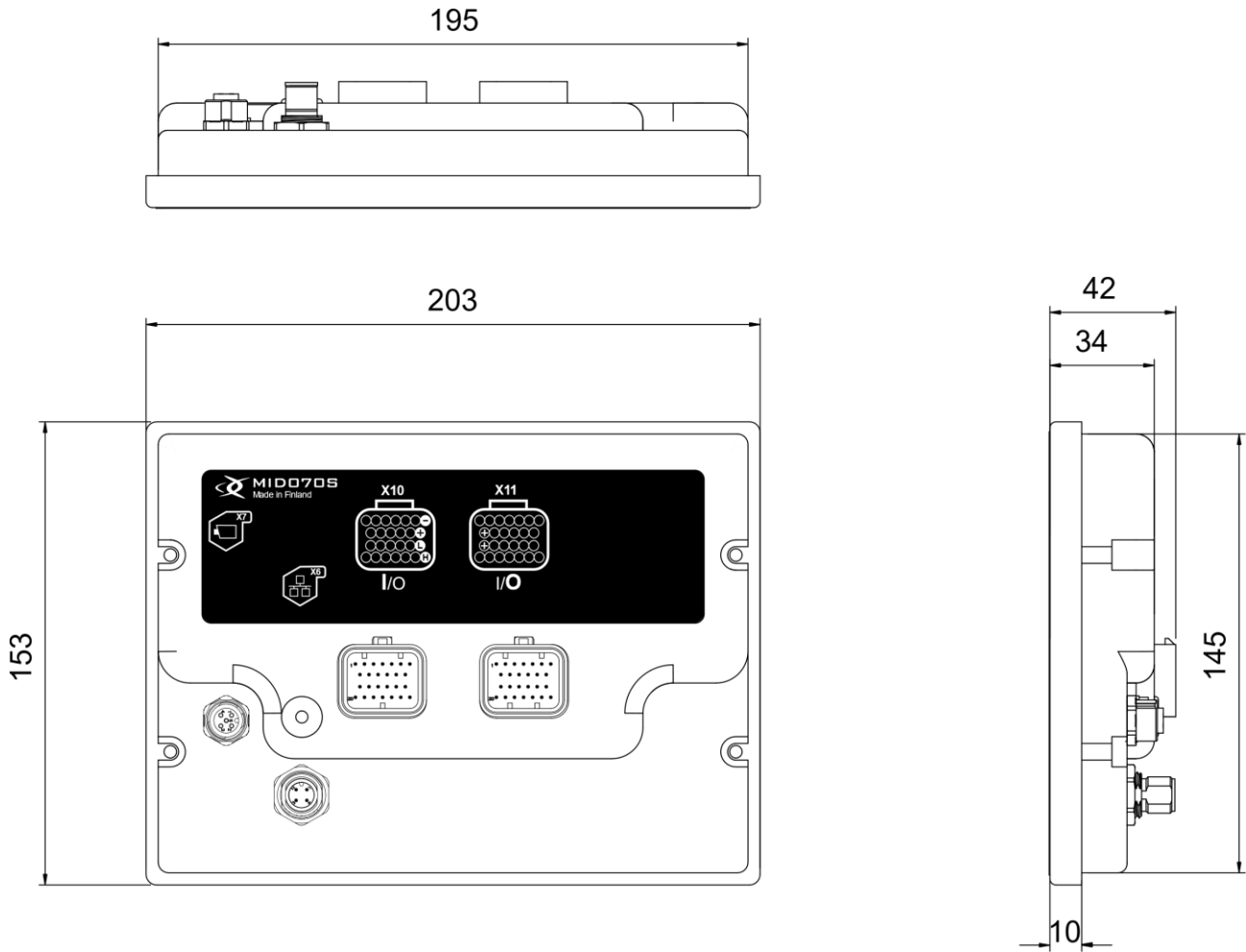
## Superseal connectors

Superseal connector needed:

X10: Super Seal Connector Plug Housing	Ø1.6 - 2.2 mm - AMP 3-1437290-7
X11: Super Seal Connector Plug Housing	Ø1.6 - 2.2 mm - AMP 3-1437290-8
Receptacle Contact (0.75 – 1.25mm <sup>2</sup> )	AMP 3-1447221-3
Filler Plug*	AMP 4-1437284-3 Deutsch 0413-204-2005

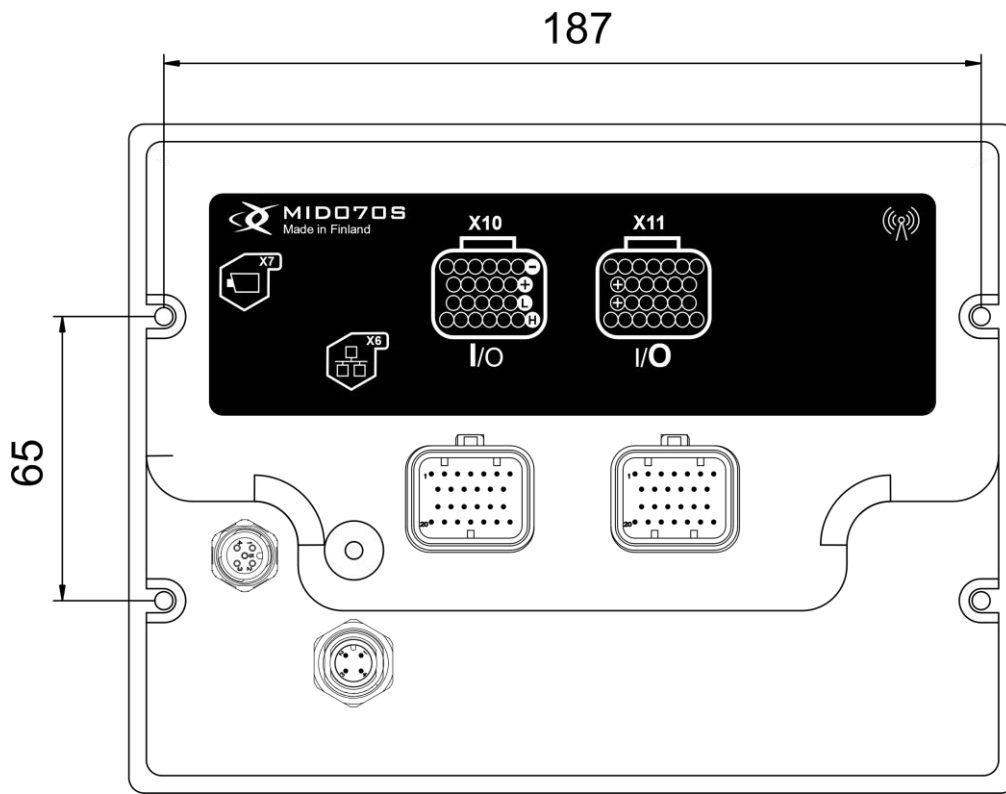
\* Filler plugs must be used on empty cavities to reach waterproofness

### Dimensions



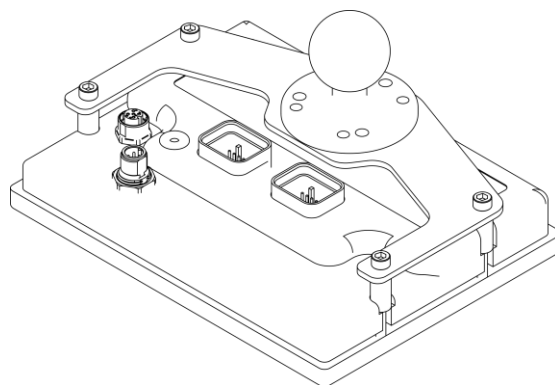
## Mounting

MIF070S can be mounted using special backplate and RAM® mounts or panel installation.



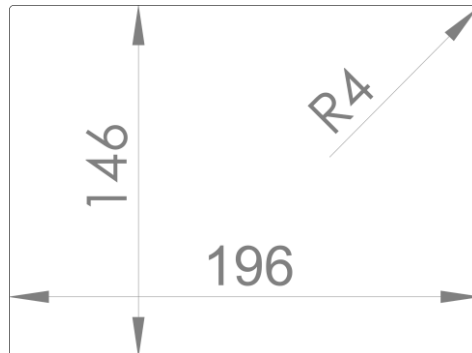
## RAM Mount

RAM® mount and associated accessories can be ordered from Exertus.



## Panel mounting

Panel mounting is done by using four mounting brackets. Mounting brackets can be ordered from Exertus.



Recommended opening  
for panel assembly

## Mounting position

The preferred mounting position is connectors pointing downwards. If the unit is mounted connectors pointing to the side, then it is vital to leave some loose cable with a downward cue to prevent the ingress of moisture through connector.

