

MID070S

Technical Data Sheet

MID070S Multi Information Display



- 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

The MID070S is embedded Linux based high end controller with loads of features. It combines the traditional I/O controller, Human Machine Interface and Data logger with rich set of interfaces such as USB, Ethernet, RS232 and CAN interfaces. It also enables showing multiple camera pictures on display.

Optionally it can be equipped with RF interface or with an internal SD memory card. It is commonly used as NMT master for machine automation systems. It can store and transfer the application and the settings to nodes in the system making commissioning and maintenance tasks easier.

Technical Information

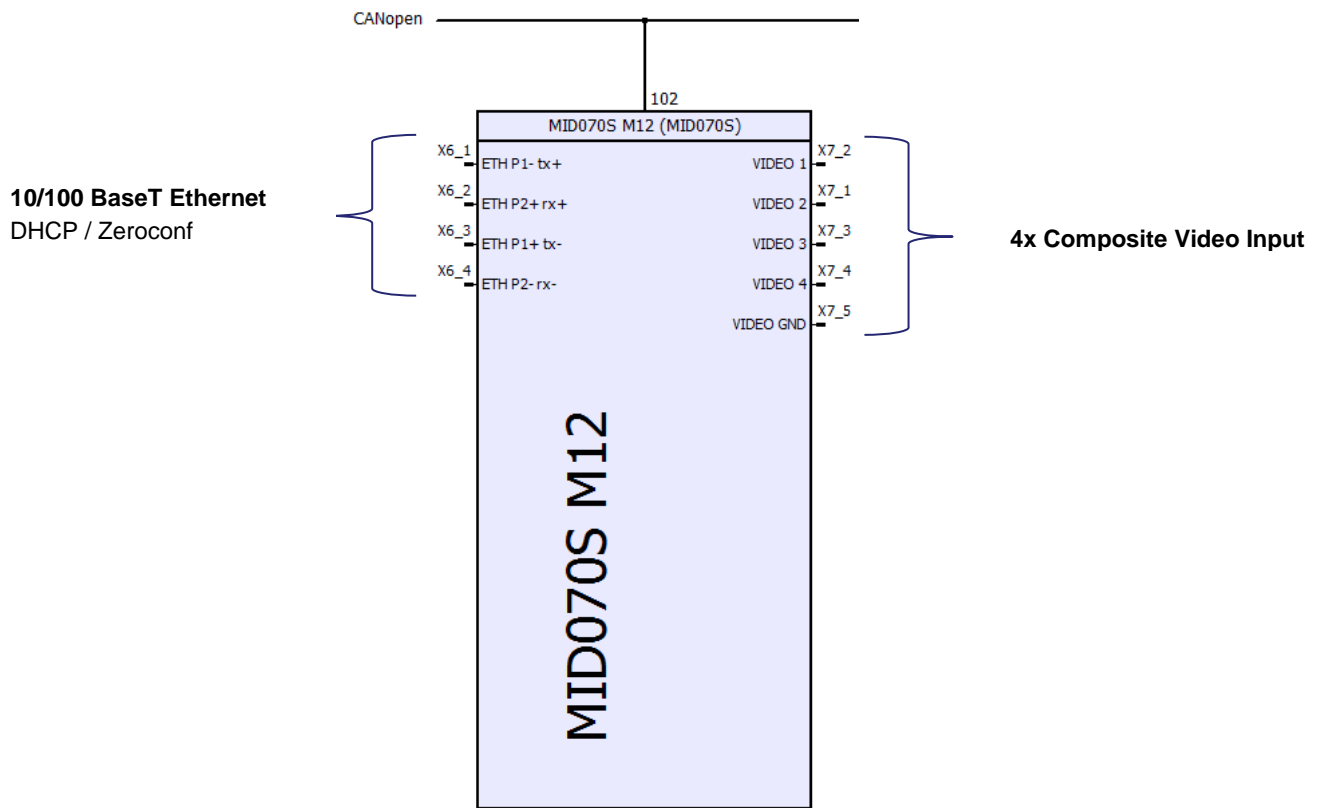
- 9-32V Operating voltage range
(Protected against reverse polarity)
- -30...+70°C operating temperature range
- 32-bit microprocessor
- 128MB RAM
- 256MB flash memory
- IP67 aluminium housing
- 7" WVGA colour TFT LCD display (resolution 800x480)
- 0.3A current consumption without external load
- Weight 1.4kg
- Main dimensions 153mm x 203mm x 42mm
- 2x CAN Interface 2.0 B, ISO 11898
- 2x Serial port interface RS232
- 1x USB interface
- 4x composite video Inputs
- Battery secured real time clock (RTC)
- Internal SD memory card slot (up to SDHC 32GB supported)
- Optional radio frequency interface

I/O Interface

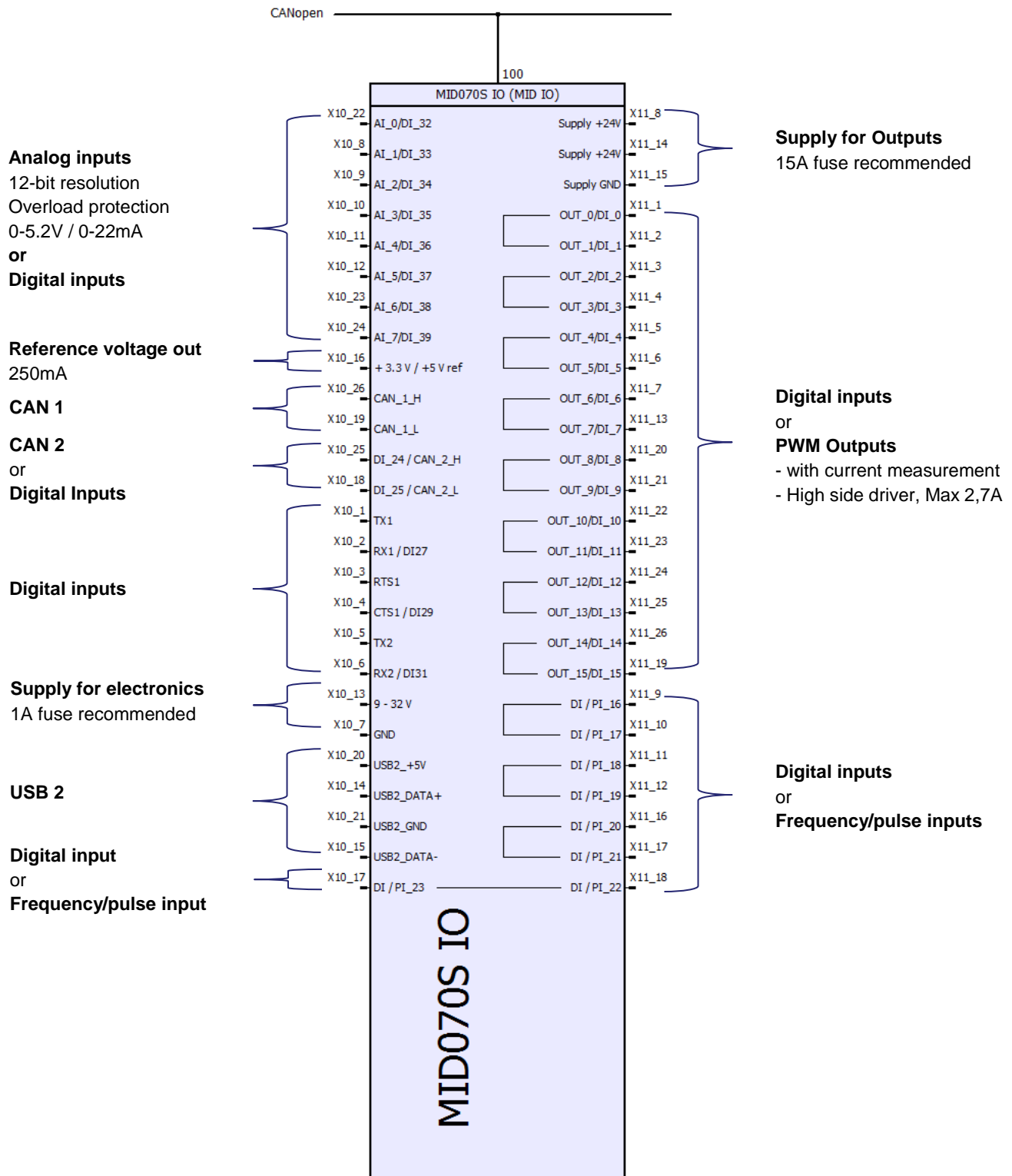
- Total of 37 configurable IO-lines
- Separate supply for outputs and electronics
- The I/O interface is protected against short to GND and to supply voltage
- Configurable reference voltage: 3.3V / 5V, max 250mA

Amount	Configurability	Details
8	Digital input Frequency/pulse input	Low<3.5V, High>5V, max 100Hz Low<3.5V, High>5V, max 8kHz
8	Digital input Analog input	Low<3.5V, High>5V, max 100Hz 12-bit AD conv., 0-5.2V, 129kΩ 0-22mA, 150Ω
16	Digital input Digital output Current controlled PWM output	Low<3.5V, High>5V, max 100Hz High side switch, max 2.7A High side switch, max 2.7A
2	Digital input CAN 2 (H & L)	Low<3.5V, High>5V, max 100Hz
3	Digital Input RS232 (RX1, CTS1 & RX2)	Low<3.5V, High>5V, max 100Hz

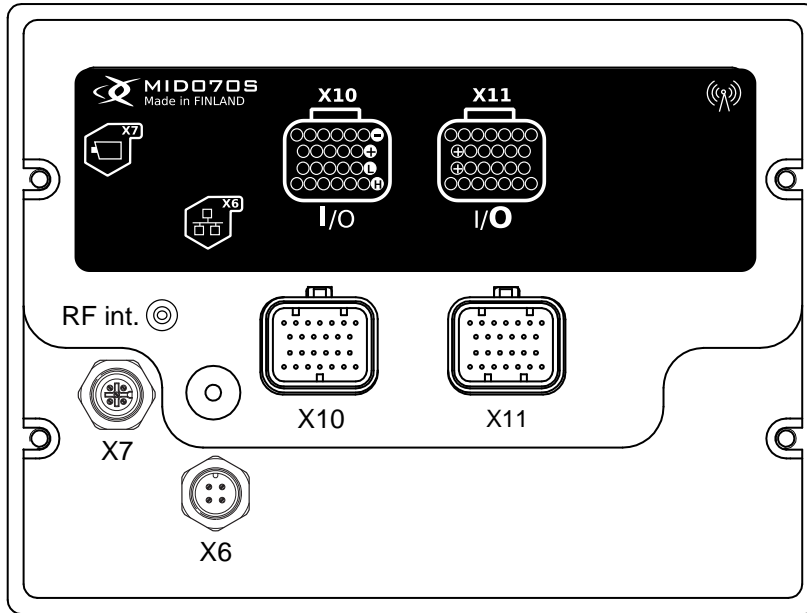
Wiring Diagram for M12 connectors (X1 through to X9):



Wiring Diagram for AMP Superseal Connectors (X10 and X11):



Connectors



M12 Connectors

M12 Connector needed:

X6 : Ethernet	4 pin, Female A-coded
X7 : Composite Video Inputs 1 – 4	5 pin, Male A-coded
Protective cap for Male M12 ¹⁾	Erni 374342
Protective cap for Female M12 ¹⁾	Erni 374343

¹⁾ Protective caps must be used on unused connectors to reach waterproofness

Tyco Electronics Superseal Connectors

Superseal connector needed:

X10 : Super Seal Connector Plug Housing	Ø1.6-2.2mm - AMP 3-1437290-7
X11 : Super Seal Connector Plug Housing	Ø1.6-2.2mm - AMP 3-1437290-8
Receptacle Contact (0.75 – 1.25mm ²)	AMP 1447221-3
Filler Plug ¹⁾	AMP 4-1437284-3 Deutsch 0413-204-2005

¹⁾ Filler plugs must be used on empty cavities to reach waterproofness

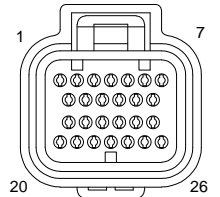
X6



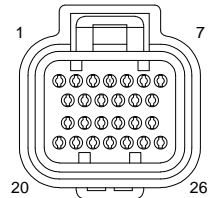
X7



X10



X11

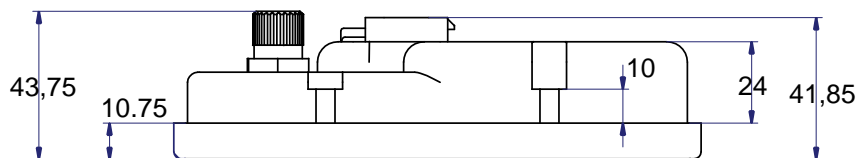
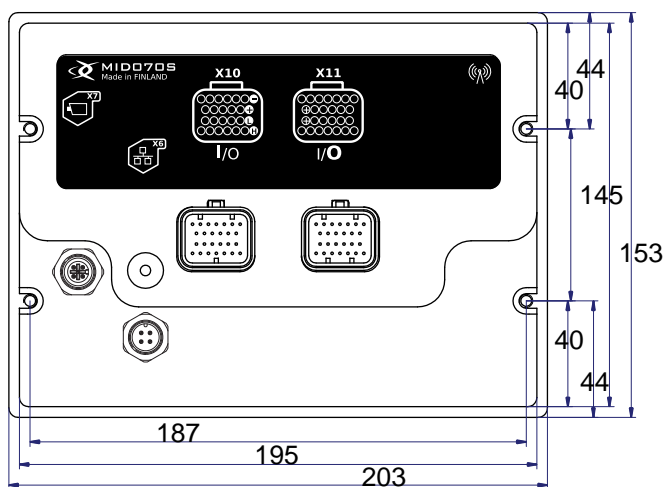
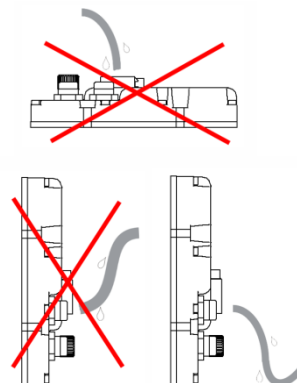


As seen from cable entry side

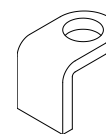
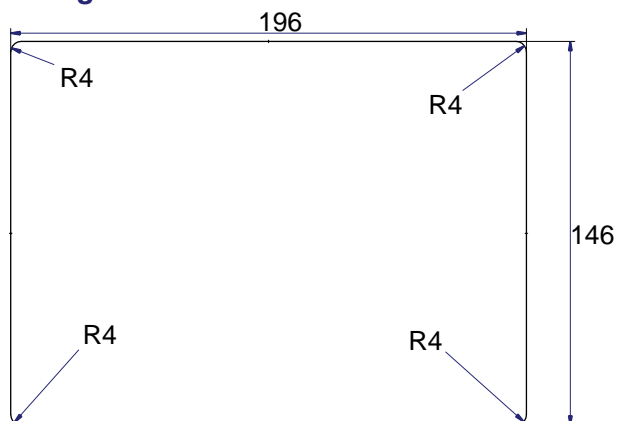
Mounting and Housing Dimensions

MID070S is fixed to mounting panel or flat surface with four M5 screws.

The preferred mounting position is connectors pointing downwards. If the unit is mounted connectors pointing to side then it is vital to leave some loose cable in a downward curve to prevent moisture



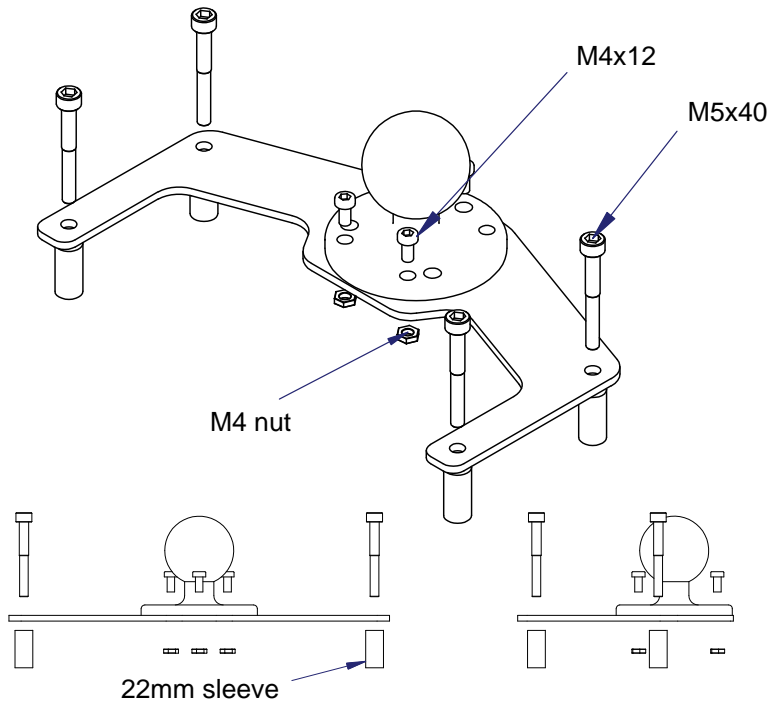
Panel Mounting



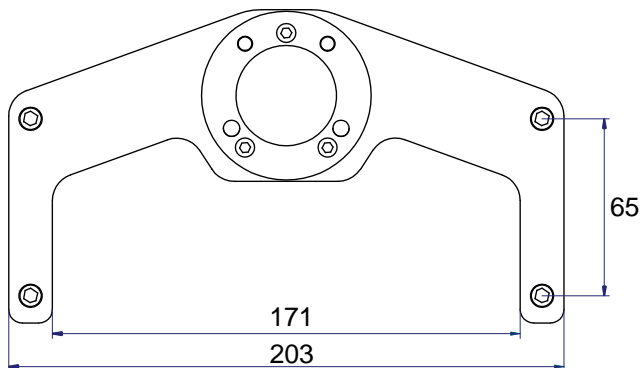
Panel mounting bracket

Above is shown mounting hole dimensions. The unit is fixed with 4 mounting brackets to its place.

RAM Mounting



Amount	Part name	Details
1	MID070S Ram Mount	
1	RAM D-Series Ball	P/N RAM-202U
4	M4x50mm Bolt	DIN7984
4	22mm Sleeve	Würth Elektronik P/N 4963220508
3	M4 Nut	DIN934
3	M4x12 Bolt	DIN7984



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