



# SE**M840**

### PROGRAMMABLE DISPLAY FOR USE IN VEHICLES AND OFF-HIGHWAY MACHINERY



#### **KEY FEATURES / SUMMARY**

- Robust HMI/programmable display specifically designed for mobile applications
- Optically bonded 4.3" colour screen for harsh environments
- Powerful Cortex M4 + M processor with 200 MHz clock speed
- 32 MB of SDRAM and 16 MB of flash storage
- · 4 configurable inputs, digital and analogue capability
- 4 configurable digital outputs
- 2 independent CAN interfaces, J1939, CAN open and Raw CAN
- Ethernet interface for communication
- Flexible user programming via CODESYS 3.5
- IP67 protection/NEMA 6

ADDITIONAL HARDWARE	<b>DSE PART</b>
Deutsch connector A, 18 way complete with pins	007-850
M840 connector harness	016-168
M840 panel gasket	020-602
Ethernet programming cable	016-160
M12 to USB cable	016-161

#### OVERVIEW

DC SUPPLY

8 V DC to 32 V DC

**CURRENT CONSUMPTION** OPERATING CURRENT

< 1000 mA at 12 V and 24 V without external loads

DISPLAY

480 px x 272 px 24 bit colour Optically bonded

INPUTS/OUTPUTS (total)

4 inputs / 4 outputs

**INPUTS** 

Configurable, Digital inputs (positive / negative) Analogue inputs (Voltage 0 V to 5 V, 0 V to 10 V, 0 V to 32 V, current 4 mA to 20 mA, Ratiometric, Resistive, Frequency)

OUTPUTS

Configurable
Digital Output High-Sided/Low-Sided

INTERFACES

CAN 1.2 CAN Interfaces 2.0 A/B, ISO11898 50 kbits/s... 1 Mbit/s CAN Open, SAE J1939 or Raw CAN

10 Mbit/s / 100 Mbit/s, Duplex

USB

USB Host 2.0 (12 Mbit/s)

DIMENSIONS

131 mm x 208 mm x 56 mm (H x W x D) 5.15" x 8.2" x 2.2" ( H x W x D)

WEIGHT

< 1 ka

STORAGE TEMPERATURE RANGE

-40 ° C to +85 ° C -40 ° F to +185 ° F

OPERATING TEMPERATURE RANGE -30 ° C to +85 ° C

-22 ° F to +185 ° F

PROTECTION RATING

IP67/NEMA 6 (with mating connectors)

MOUNTING 4 x M5 bolts / RAM arm

### **RELATED MATERIALS**

TITLE PART NO. M840 Installation Instructions 053-188 M840 Operators Manual 057-248

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#### **Technical Data**

DSE <b>M840</b>		
Supply		Connector A
Operating voltage	8 V DC to 32 V DC	Pin 7
Unit power supply maximum current consumption, full backlight (no external loads)	< 1000 mA at 12 V and 24 V	
Unit power supply current consumption after controlled shutdown has occurred due to the ignition being turned off	< 5 mA at 24 V	
Fusing		Connector A
Unit power supply external protection fuse rating	3 A	Pin 7
High current outputs supply input external fuse protection rating (i.e. sum of output currents from all outputs provided for by an individual supply to < external fuse rating in total)	10 A	Pin 7
Housing		
PC PBT alloy plastic resin		
Dimensions		
131 mm x 208 mm x 56 mm (H x W x D) / 5.15" x 8.2" x 2.2" ( H x W x D)		
Weight		
< 1 kg		
Temperature		
Operating temperature	-30 ° C to +85 °C / -22 ° F to +185 ° F	
Storage temperature	-40 ° C to +85 °C / -40 ° F to +185 ° F	
Protection Rating		
	IP67 (mating connectors)	

NEMA 6 (mating connectors)

Display		
Resolution, pixel	480 px x 272 px	
Colour	24 bit	
Format	4.3" diagonal	
Mounting	Optically bonded	
Illumination	LED (lifetime > 50,000 hrs)	
Connectors		
Connector A	18 pin TE connectivity DT16- 18SA-K004	
Ethernet	M12, D-coded 4 pole socket	
USB	M12, B-coded 5 pole socket	
Digital Inputs		Connector A
Digital inputs configured high or low		Pin 10, 11, 16, 17
High level voltage threshold	> 6 V	
Low level voltage threshold	< 2 V	
Analogue Voltage Inputs		Connector A
0 V to 5 V programmable voltage range	0 V to 5 V	Pin 10, 11, 16, 17
0 V to 10 V programmable voltage range	0 V to 10 V	
0 V to 32 V programmable voltage range	0 V to 32 V	
Voltage measurement resolution	10 bits	
Voltage measurement accuracy	± 1% FSD	
Voltage measurement input resistance	≥ 30 kΩ	
Voltage measurement sampling rate	500 Hz	
FSD = Full Scale Deflection		





	M		

Analogue Current Inputs		Connector A
Current measurement direction	Current sink only	Pin 10, 11, 16, 17
Current measurement ranges	0 mA to 20 mA	1 11 10, 11, 10, 17
oundin modeliaman ranges	4 mA to 20 mA	
Current measurement resolution	10 bits	
Current measurement accuracy	± 1% FSD	
Current measurement input sink resistance	100 Ω ± 1%	
Current measurement sampling rate	500 Hz	
FSD = Full Scale Deflection	000112	
Analogue Resistive Inputs		Connector A
Resistance measurement range	0 Ω to 3200 Ω	Pin 10, 11, 16, 17
Resistance measurement source voltage	12 V maximum	1 111 10, 11, 10, 17
Resistance measurement current	1 mA	
Resistance measurement resolution	10 bits	
Resistance measurement accuracy	± 1% FSD	
Resistance measurement sampling rate	500 Hz	
FSD = Full Scale Deflection	300 112	
Analogue Ratiometric Inputs		Connector A
Voltage ratiometric measurement voltage range		Pin 10, 11, 16, 17
Voltage ratiometric measurement Vref	Supply/Vref	1 111 10, 11, 10, 17
Voltage ratiometric measurement	Ratio of input pin to supply voltage	
Voltage ratiometric measurement accuracy	± 1% FSD	
FSD = Full Scale Deflection		
Frequency Inputs	·	Connector A
Frequency range	5 Hz to 30 KHz	Pin 10, 11, 16, 17
Resolution	100 Hz at max. freq	
Accuracy	400 Hz at max. freq	
Maximum space voltage	< 1 V	
Minimum mark voltage	> 6 V	
Digital Outputs High Side	·	Connector A
Switching current	1 A	Pin 2, 3, 4, 5
Digital output active high 'ON' state internal voltage drop at rated current	< 100 mV	
Digital output active high 'OFF' state leakage current	< 10 µA at 24 V	
Digital Outputs Low Side		Connector A
Switching current	1 A	Pin 2, 3, 4, 5
Digital output active low 'ON' state maximum voltage at rated current	< 100 V	
Digital output active low 'OFF' state leakage current	< 2 mA at 24 V	
Reference Voltage		Connector A
Reference voltage output	Programmable 5 V or 10 V, 150 mA accuracy ±5%	6
		VRef GND Pin 18
Auxiliary Voltage		Connector A
12 V auxiliary voltage	Max 150 mA	Pin 13





Real time clock         Standard RTC, backup time clock in your clock when the process of a content of a year of a year of a year of the process of a content of any public when the process of a content of any public when the process of a content of any public when the process of any		DSE <b>M840</b>			
Camera	RTC				
Analogue video input (supported video standards: PAL and NTSC)	Real time clock				
CAN Interfaces         Connector A           Number of CAN ports         2         Pin 8, 9, 14, 15           Supported protocols         J1939         Pin 8, 9, 14, 15           Supported protocols         RAW CAN         CAN open           Supported programmable baud rates         S0 kbit/s, 500	Camera				Connector A
Number of CAN ports	Analogue video input (supported	l video standards: PAL and NTSC)	1		12,18
Supported protocols	CAN Interfaces				Connector A
CAN cpan	Number of CAN ports		2		Pin 8, 9, 14, 15
Raw CAN	Supported protocols		J193	9	
Supported programmable baud rates			CAN	open	
Number of Ethernet ports			Raw	CAN	
Number of Ethernet ports         1         D-coded 4 pole socket           Supported data rates         10/100 Mbit/s         Edition Modus TCP           CODESYS 3.5         CODESYS 3.5         CODESYS 3.5           With port of USB host ports         1         B-coded, 5 pole socket           Supported USB host ports         1         B-coded, 5 pole socket           Supported USB post ported         1         B-coded, 5 pole socket           Supported USB post ported         08 (Mass Storage)         Image: Code (Iza Mbit/s)           Supported Images supported         Device class supported         FAT32         Image: Code (Iza Mbit/s)           Name of Usa Mass Storage         Image: Code (Iza Mbit/s)         Image:	Supported programmable baud	rates	kbit/s, 500 kbit/s, 800 Mbit/s,		
Supported data rates         10/100 Mbit/s         Supported protocols         Modbus TCP           USB Interface         M12, 5 pole           Number of USB host ports         1         B-coded, 5 pole socket           Supported USB version         2         Full speed (12 Mbit/s)         Decoded, 5 pole socket           Speeds supported         08 [Mass Storage)	Ethernet Interface				M12, 4 pole
Supported protocols  Waterface  Waterface  Waterface  Waterface  Waterface  Waterface  Waterface  Supported USB nost ports	Number of Ethernet ports		1		D-coded 4 pole socket
USB Interface  USB Interface    M12, 5 pole	Supported data rates		10/1	00 Mbit/s	
WBIs Interface       Number of USB host ports     1     B-coded, 5 pole socket       Supported USB version     2     2       Speeds supported     08 (Mass Storage)	Supported protocols		Mod	bus TCP	
Number of USB host ports			COD	ESYS 3.5	
Supported USB version     2     Full speed (12 Mbit/s)       Speeds supported     Full speed (12 Mbit/s)     6       Device class supported Filing system     68 (Mass Storage)     5       NZP LPC4357     Dual ARM M4 & M0 Cortex     200 MHz     6       NZP LPC4357     Dual ARM M4 & M0 Cortex     200 MHz     6       Memory       Flash     32 MB     5       LED Status       Colour     Description     State       None     Device not powered     N/A     Off       Green     Unit powered up, application program loaded but not running     5 Hz flash     Application stopped       Green     Unit powered up, but no application program loaded and running     1 Hz flash     No application       Amber     Bootloader functioning normally, firmware present     Static     Bootloader mode       Firmware is at start-up     Static     Bootloader mode       Unit stopped due to a serious fault     Static     Application exception       Bootloader is reading an image from the USB     5 Hz flash     Decrypting image       Red     Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition tunning running fault and fault condition for running running running fault and running running running fault and fault condition for running run					T
Speeds supported  Device class supported  Device class supported  Supported filing system  Processor  NXP PC4357  Dual ARM M4 & M0 Cortex  2000 MHz  Memory  Flash  Sa MB  LED Status  Colour  Description  Description  Description  Device not powered  Unit powered up, application program loaded but not running Unit powered up, but no application program loaded and running Unit powered up, but no application program loaded  Amber  Bootloader functioning normally, firmware present Firmware is at start-up Unit stopped due to a serious fault  Bootloader is decrypting the downloaded image Bootloader is reading an image from the USB  Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition Unit running with a fault, see CODESYS error flags  Faulty application running Fatulty application running Faulty application running Static Fatulty application Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition Unit running with a fault, see CODESYS error flags  Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition Unit running with a fault, see CODESYS error flags					B-coded, 5 pole socket
Device class supported Supported filing system Processor  NXP LPC4357  Dual ARM M4 & M0 Cortex 200 MHz  Memory Flash Supported filing system Processor  NXP LPC4357  Dual ARM M4 & M0 Cortex 200 MHz  Device not powered  NAP  Colour Description Operation State  NAP  Coreen Unit powered up, application program loaded but not running Unit powered up, but no application program loaded and running Unit powered up, but no application program loaded Description  Amber Bootloader functioning normally, firmware present Firmware is at start-up Unit stopped due to a serious fault Bootloader is decrypting the downloaded image Bootloader is reading an image from the USB  Red Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition Unit running with a fault, see CODESYS error flags  Dual ARM M4 & M0 Cortex  Dual ARM M4  M0 Cortex  Dual Arm Masser  Date of Colour Masser  Date of Colour			+		
Supported filing system  Processor  NXP LPC4357  Dual ARM M4 & M0 Cortex 200 MHz  Memory  Flash S2 MB  LED Status  Colour Description None Device not powered Unit powered up, application program loaded but not running Unit powered up, application program loaded and running Unit powered up, but no application program loaded and running Unit powered up, the no application program loaded  Amber Bootloader functioning normally, firmware present Firmware is at start-up Unit stopped due to a serious fault  Bootloader is decrypting the downloaded image Bootloader is reading an image from the USB  Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition Unit running with a fault, see CODESYS error flags  Faulty application running					
Processor  NXP LPC4357  Dual ARM M4 & M0 Cortex 200 MHz    Memory					
NXP LPC4357   Dual ARM M4 & M0 Cortex			FAT3	2	
Memory         Flash       32 MB         LED Status         Colour       Description       Operation       State         None       Device not powered       N/A       Off         Green       Unit powered up, application program loaded but not running       Static       Application stopped         Unit powered up, application program loaded and running       1 Hz flash       Application running         Amber       Bootloader functioning normally, firmware present       Static       Bootloader mode         Firmware is at start-up       Static       Bootloader mode         Unit stopped due to a serious fault       Static       Application exception         Bootloader is decrypting the downloaded image       1 Hz flash       Decrypting image         Bootloader is reading an image from the USB       5 Hz flash       Reading image from USB         Red       Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition Unit running with a fault, see CODESYS error flags       Static       Fatal error			T	ADM 144 0 140 0	
Flash  Description  Description  Device not powered  Unit powered up, application program loaded but not running Unit powered up, but no application program loaded  Amber  Bootloader functioning normally, firmware present Firmware is at start-up Unit stopped due to a serious fault  Bootloader is reading an image from the USB  Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition Unit running with a fault, see CODESYS error flags  Operation  No ABB  Static Application  Static Bootloader  Static Firmware is at start-up Static Application exception  1 Hz flash Decrypting image Static Fatal error Faulty application Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition Unit running with a fault, see CODESYS error flags	NXP LPC4357				
Flash  LED Status  Colour  Description  Device not powered  N/A  Off  Green  Unit powered up, application program loaded but not running Unit powered up, application program loaded and running Unit powered up, but no application program loaded Firmware is at start-up Unit stopped due to a serious fault  Bootloader is reading an image from the USB  Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is na fault condition Unit running with a fault, see CODESYS error flags  Decration  Static  Application stopped Application running 1 Hz flash No application Application running Static Firmware start-up Static Application exception  Static Application exception  Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition Unit running with a fault, see CODESYS error flags	Mamani		2001	VIHZ	
Colour         Description         Operation         State           None         Device not powered         N/A         Off           Green         Unit powered up, application program loaded but not running         Static         Application stopped           Unit powered up, application program loaded and running         1 Hz flash         Application running           Unit powered up, but no application program loaded         5 Hz flash         No application           Amber         Bootloader functioning normally, firmware present         Static         Bootloader mode           Firmware is at start-up         Static         Firmware start-up           Unit stopped due to a serious fault         Static         Application exception           Bootloader is decrypting the downloaded image         1 Hz flash         Decrypting image           Bootloader is reading an image from the USB         5 Hz flash         Reading image from USB           Red         Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition         5 Hz flash         Fatal error           I Hz flash         Faulty application running         1 Hz flash         Faulty application running	-		22 M	ID.	
Colour         Description         Operation         State           None         Device not powered         N/A         Off           Green         Unit powered up, application program loaded but not running         Static         Application stopped           Unit powered up, application program loaded and running         1 Hz flash         Application running           Unit powered up, but no application program loaded         5 Hz flash         No application           Amber         Bootloader functioning normally, firmware present         Static         Bootloader mode           Firmware is at start-up         Static         Firmware start-up           Unit stopped due to a serious fault         Static         Application exception           Bootloader is decrypting the downloaded image         1 Hz flash         Decrypting image           Bootloader is reading an image from the USB         5 Hz flash         Reading image from USB           Red         Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition         1 Hz flash         Fatal error           Unit running with a fault, see CODESYS error flags         1 Hz flash         Faulty application running			32 10		
None Device not powered N/A Off Green Unit powered up, application program loaded but not running Static Application stopped Unit powered up, application program loaded and running 1 Hz flash Application running Unit powered up, but no application program loaded 5 Hz flash No application Bootloader functioning normally, firmware present Static Bootloader mode Firmware is at start-up Unit stopped due to a serious fault Static Firmware start-up Unit stopped due to a serious fault Static Application exception  Bootloader is decrypting the downloaded image 1 Hz flash Decrypting image Bootloader is reading an image from the USB 5 Hz flash Reading image from USB  Red Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition Unit running with a fault, see CODESYS error flags		Description		Operation	State
Green  Unit powered up, application program loaded but not running Unit powered up, application program loaded and running Unit powered up, but no application program loaded  Amber  Bootloader functioning normally, firmware present Firmware is at start-up Unit stopped due to a serious fault  Bootloader is decrypting the downloaded image Bootloader is reading an image from the USB  Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition Unit running with a fault, see CODESYS error flags  Application stopped Application stopped  Application stopped  Application stopped  Application running  No application  Static  Bootloader mode  Firmware start-up  Static  Application exception  Fatalsh  Beading image from USB  Fatal error  1 Hz flash  Faulty application running				•	+
Unit powered up, application program loaded and running Unit powered up, but no application program loaded 5 Hz flash No application  Bootloader functioning normally, firmware present Static Bootloader mode Firmware is at start-up Unit stopped due to a serious fault Static Bootloader is decrypting the downloaded image Bootloader is reading an image from the USB  Red Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition Unit running with a fault, see CODESYS error flags			ınnina		+
Unit powered up, but no application program loaded 5 Hz flash No application  Bootloader functioning normally, firmware present Static Bootloader mode  Firmware is at start-up Unit stopped due to a serious fault Static Application exception  Bootloader is decrypting the downloaded image 1 Hz flash Decrypting image  Bootloader is reading an image from the USB 5 Hz flash Reading image from USB  Red Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition Unit running with a fault, see CODESYS error flags	Green			Static	
Amber  Bootloader functioning normally, firmware present  Firmware is at start-up  Unit stopped due to a serious fault  Bootloader is decrypting the downloaded image  Bootloader is reading an image from the USB  Bootloader is reading an image from the USB  Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition  Unit running with a fault, see CODESYS error flags  Bootloader mode  Firmware start-up  Application exception  Decrypting image  Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition  The flash  Fatal error  Fatal error  Fatal error  Fatal error  The flash  Faulty application running		Unit powered up, application program loaded and runni	ng	1 Hz flash	Application running
Firmware is at start-up Unit stopped due to a serious fault  Bootloader is decrypting the downloaded image Bootloader is reading an image from the USB  The flash  Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition Unit running with a fault, see CODESYS error flags  The flash  Firmware start-up  Application exception  The flash  Firmware start-up  Application exception  The flash  Firmware start-up  Application exception  Static  Fatal error  The flash  Faulty application running		Unit powered up, but no application program loaded		5 Hz flash	No application
Unit stopped due to a serious fault  Bootloader is decrypting the downloaded image  Bootloader is reading an image from the USB  The fall system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition Unit running with a fault, see CODESYS error flags  Static  Application exception  Decrypting image  Reading image from USB  Static  Fatal error  Fatal error  Faulty application running	Amber	Bootloader functioning normally, firmware present		Static	Bootloader mode
Bootloader is decrypting the downloaded image  Bootloader is reading an image from the USB  The flash  Bootloader is reading an image from the USB  Bootloader is reading an image from the USB  The flash  Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition  Unit running with a fault, see CODESYS error flags  The flash  Fatal error  Fatal error  The flash  Faulty application running		Firmware is at start-up		Static	Firmware start-up
Bootloader is reading an image from the USB 5 Hz flash Reading image from USB  Red Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition Unit running with a fault, see CODESYS error flags  5 Hz flash Reading image from USB  Static Fatal error 1 Hz flash Faulty application running		Unit stopped due to a serious fault		Static	Application exception
Red Fatal system/hardware fault - LEd may be driven directly by microcontroller error pin or firmware is in a fault condition Unit running with a fault, see CODESYS error flags  USB  Static Fatal error  1 Hz flash Faulty application running		Bootloader is decrypting the downloaded image		1 Hz flash	Decrypting image
microcontroller error pin or firmware is in a fault condition  1 Hz flash Faulty application running with a fault, see CODESYS error flags		Bootloader is reading an image from the USB		5 Hz flash	
Unit running with a fault, see CODESYS error flags running	Red				
				1 Hz flash	





#### DSE**M840**

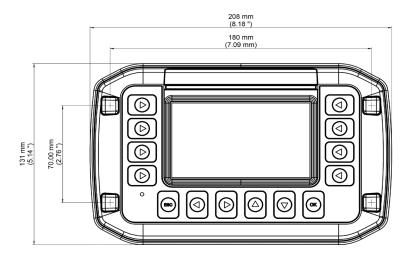
Environmental and Test	Environmental and Testing		
CE marking	Electromagnetic compatibility (EMC) noise immunity Electromagnetic compatibility (EMC) emission standard	BS EN ISO 13766-1:2018	
Electrical tests	Pulse 1, severity level: IV; function state C Pulse 2a, severity level: IV; function state B Pulse 2b, severity level: IV; function state C Pulse 3a, severity level: IV; function state A Pulse 3b, severity level: IV; function state A Pulse 4, severity level: IV; function state B Pulse 5a, severity level: III; function state C	ISO 7637-2	
Climatic tests	Damp heat, cyclic upper temperature 55°C, number Damp heat, steady state test temperature 40 °C / 93% RH Test duration: 21 days Salt spray test severity level 3 (vehicle)	EN 60068-2-30 EN 60068-2-78 EN 60068-2-53	
Mechanical tests	Test VII; vibration, random mounting location: vehicle body Vibration, sinusoidal 2000 Hz: 0.73 mm / 10g: 10 cycles/axis Bumps 30 g / 6 ms; 24,000 shocks	ISO 16750-3 EN 60068-2-6 ISO 16750-3	

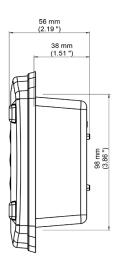


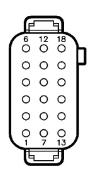


# **SEM840**

## PROGRAMMABLE DISPLAY FOR USE IN **VEHICLES AND OFF-HIGHWAY MACHINERY**







#### **Connector A**

PIN	DESCRIPTION	REF
1	ECU Supply GND	
2	OUT H, L	QA002
3	OUT H, L	QA001
4	OUT H, L	QA004
5	OUT H, L	QA003
6	VREF OUT	
7	Battery	
8	CAN1 H	
9	CAN 2 H	
10	AIN	IA001
11	AIN	IA002
12	Camera 1	
13	Ignition	
14	CAN1 L	
15	CAN2 L	
16	AIN	IA003
17	AIN	IA004
18	Camera 1 GND	

Ethernet M12 "D" coded - 4 pin female



Pin - 01	TX+
Pin - 02	RC+
Pin - 03	TX-
Pin - 04	RC-

**USB** Host

M12 'B' coded - 5 pin female



Pin -01	+ 5 V DC
Pin - 02	Data -
Pin - 03	Data+
Pin - 04	ID
Pin - 05	GND