

JetViewMobile 105

Display controller



- Display with built-in controller
- Flexible extension options
- Advanced connectivity

Description

Thanks to its compact and rugged design, the JVM-105 HMI is ideally suited for any application of mobile machinery.

It comes with a powerful controller offering extension options through additional I/O connections, three Ethernet and one USB port. In many applications, this makes an additional controller redundant.

Typically, the HMI is operated via nine backlit keys, and a digipot used as pushbutton.

Technical specifications

Display	5" with PCAP Glas Touch
Resolution	800 x 480 pixels
CPU	STM32MP2 64-Bit CPU
Memory: RAM – application – non-volatile	1 GB RAM, 4 GB flash
Programming	Graphics: JetViewSoft logic: IEC61131-3 STX
Operating system	Linux
Operating voltage range	DC 8 ... 32 V
Operating/storage temperature	-20 °C ... +65 °C/-30 °C ... +70 °C
Ports and interfaces	
CAN	2×
USB	1
Ethernet	3× (2× 100BASE-T1, 1× 1000BASE-T)
RS232	1
Control elements	9 pushbuttons, backlit
	1 push encoder
	1 touch screen
Signaling	1 buzzer 83 dB/10 cm/2670 Hz
Max. amount of inputs/outputs	11 (option: enclosure with Deutsch-DT connector)
Inputs (option)	
Analog	4; 0 ... 10 V/0 ... 20 mA, can be configured individually
	Resolution: 12 bits, input impedance: 50 kΩ, load resistor: 120 Ω
	Alternative usage:
	- Digital input active-high, input impedance 50 kΩ
	- Frequency input 0.1 kHz ... 10 kHz, period > 1 μs, input impedance 20 kΩ
	- Counting input 0.1 Hz ... 10 kHz, counting range 32 bits
Outputs (option)	
High-side outputs	6; 3 A
	Alternative usage:
	4× PWMi 3 A
	2× digital output, 3 A high-side
Max. permitted total current	12 A fully equipped with I/Os
Degree of protection	IP65 (front), IP65 (rear)
Protection against polarity reversal	Yes

Pinout

12-pin Deutsch connector 1 (DT06-12S)	
GND	1
VBAT_PWR	2
Ignition	3
Flashing	4
N.C.	5
VBAT_ECU	6
RS232 TxD	7
RS232 RxD	8
CAN1_L	9
CAN1_H	10
CAN2_L	11
CAN2_H	12

Pinout

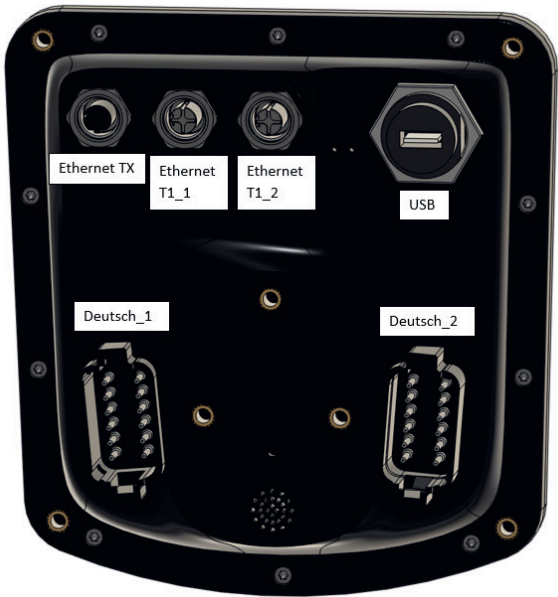
12-pin Deutsch connector 2 (DT06-12S)	
DI_N	1
PWMi_HS3_1	2
PWMi_HS3_2	3
PWMi_HS3_3	4
PWMi_HS3_4	5
PWM_H3_1	6
PWM_H3_2	7
GND	8
MFI_1	9
MFI_2	10
MFI_3	11
MFI_4	12

Pinout

M12 female connector, D-coded for TX Ethernet	
ETH_TX+	1
ETH_RX+	2
ETH_TX-	3
ETH_RX-	4

Pinout

M12 female connector, A-coded for T1 Ethernet	
TRX_P	1
PWR+	2
TRX_N	3
GND	4



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Further details and order information are available on request. Specifications are subject to change without notice. Errors and omissions excepted.