

eSMART107

7" TFT color with touchscreen. 2 Ethernet ports, 2 CAN ports, 4 serial ports, 2 USB ports. JMobile runtime.



- ARM Cortex-A9 dual-core CPU
- 7" TFT color display, resolution 800x480 pixel, 64K colors. Dimmable LED backlight
- Resistive touchscreen
- 2 Ethernet ports
- 2 CAN ports
- 4 Serial ports
- 2 USB ports

Highlights

eSMART107 combines top performance and plenty connectivity features in a compact design. It is an ideal platform for integrated HMI and control applications. The product has been designed as IoT edge device with the combination of a powerful controller with networking capability and outstanding communication options including client/server OPC UA.

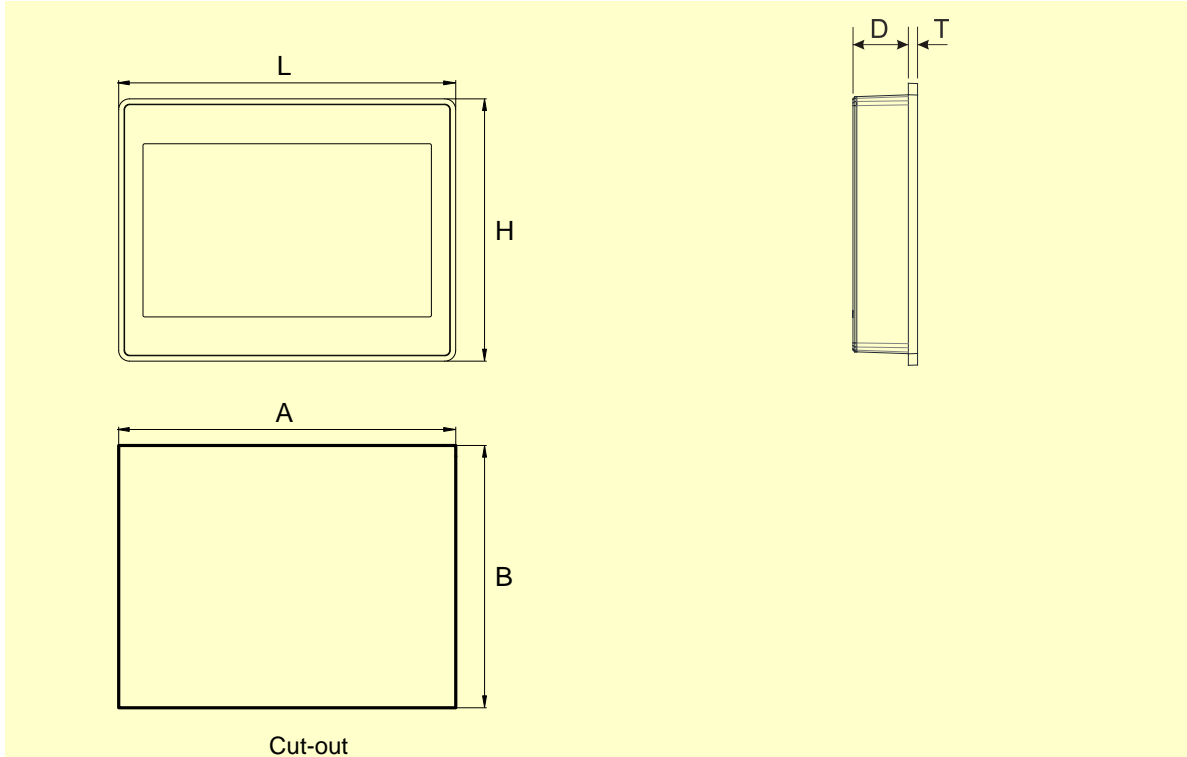
The eSMART HMI products have been designed to run the JMobile software.

- JMobile runtime included.
- Requires JMobile V2.6 or higher.
- Supports JMcloud secure connectivity with full network separation.
- OPC UA Server and Client.
- Optional CODESYS V3 runtime with choice of EtherCAT, Profinet, Ethernet IP, Modbus TCP and CAN networks.

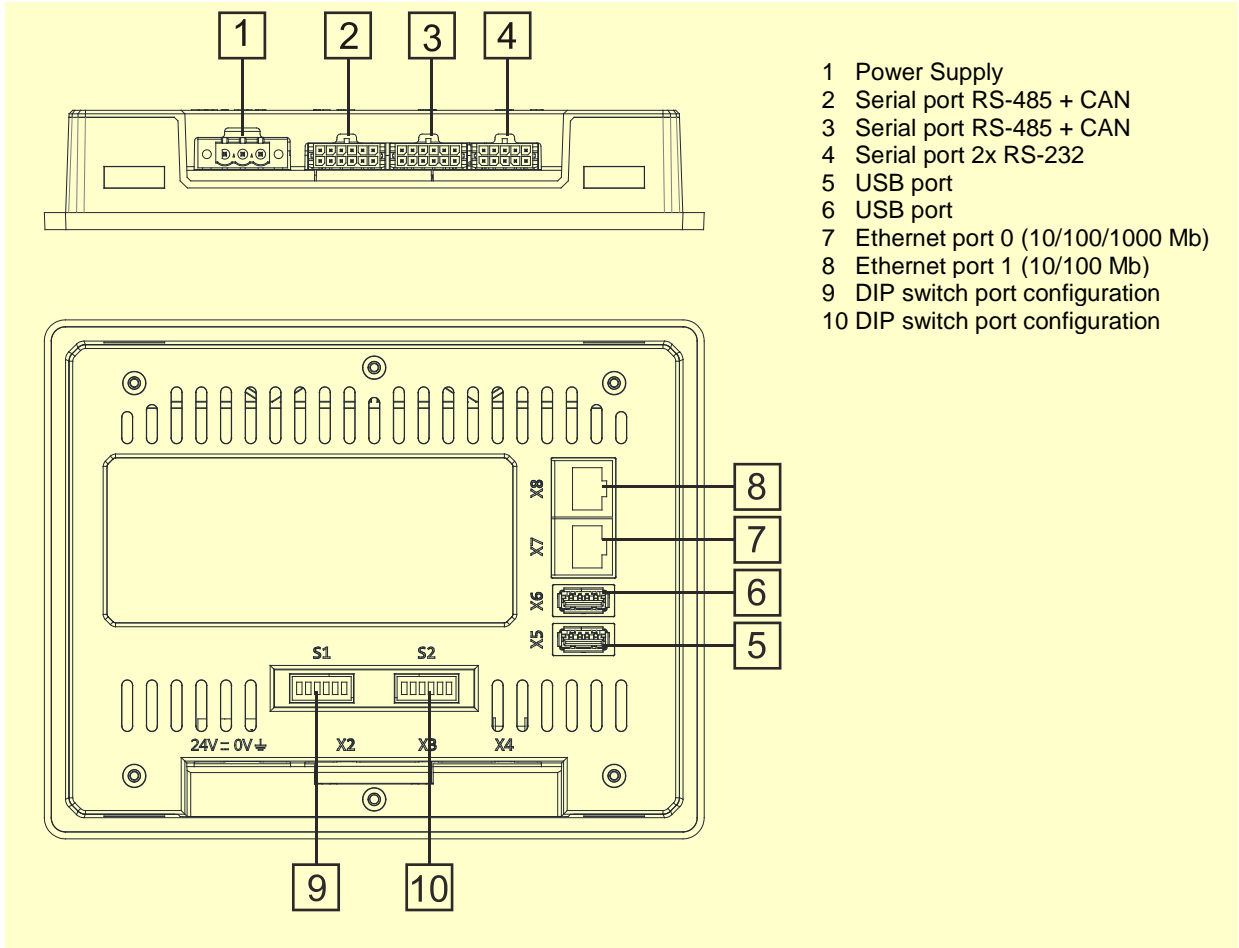
Technical Data

Display		Ratings	
Type	TFT	Power supply voltage	24 Vdc (10 to 32 Vdc)
Resolution	800x480, WVGA	Current consumption	0.3 A at 24Vdc (max.)
Active display area	7" diagonal	Input protection	Electronic
Colors	64K	Weight	0.875 Kg
Backlight	LED	Environmental Conditions	
Brightness	200 Cd/m ² typ.	Operating temperature	0 to 50 °C (vertical installation)
Dimming	Yes	Storage temperature	-20 to +70 °C
System Resources		Operating and storage humidity	5 – 85 % relative humidity, non-condensing
CPU	ARM Cortex-A9 dual-core 800 MHz	Protection class	IP66 (front) IP20 (rear)
Operating System	Linux RT	Dimensions	
Flash	4 GB	Faceplate LxH	187x147 mm (7.36x5.79")
RAM	1 GB	Cutout AxB	176x136 mm (6.93x5.35")
Real Time Clock	Yes	Depth D+T	29+5 mm (1.14+0.19")
RTC backup	Yes, rechargeable battery	Approvals	
Buzzer	No	CE	Emission EN 61000-6-4 Immunity EN 61000-6-2 for installation in industrial environments
Operator Interface			
Touchscreen	Resistive		
LED indicators	-		
Interfaces			
Ethernet port 0	10/100/1000		
Ethernet port 1	10/100		
USB port 1	Host V2.0, max. 100 mA		
USB port 2	Host V2.0, max. 100 mA		
Serial	2x RS-232 2x RS-422/RS-485 isolated 2x CAN 2.0b isolated		

Dimensions



Connections



Ordering Information

Model	Part Number	Description
eSMART107	+ESMA107U301	7" TFT color with touchscreen. 2 Ethernet ports, 2 CAN ports, 4 serial ports, 2 USB ports. JMobile runtime.

ptn0603

Ver. 1.0

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