

eSMART107 Tech-Note

7" TFT - ARM Cortex-A9 dual core - 800 MHz

- 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 Corvina Cloud 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

eSMART107 - Technical Data

System Resources Display - Colors

Resolution

Brightness

Touchscreen

Operating System

Real Time Clock, RTC Back-up, Buzzel

Dimming

CPU

Flash

RAM

Interface

SD card

Ratings

Battery

Expansion

Power supply Current Consumption

Environment Conditions

Storage Temp Operating / Storage Humidity

Dimensions and Weights Faceplate LxH

Input Protection

Operating Temp

Protection Class

Cutout AxB

Depth D+T

Weight Approval:

CE

UL

RCM

DNV-GL

EU RO MR

Ethernet port USB port Serial port











- 1 Power Supply
- 2 Serial port RS-485 + CAN
- 3 Serial port RS-485 + CAN
- 4 Serial port 2x RS-232
- 5 USB port
- 6 USB port
- 7 Ethernet port 0 (10/100/1000 Mb)
- 8 Ethernet port 1 (10/100 Mb)
 - 9 DIP switch port configuration
 - 10 DIP switch port configuration

7" TFT 16:9 - 64K

800x480, WVGA

200 Cd/m² typ.

to 0%

Resistive

ARM Cortex-A9 dual core - 800 MHz

Linux RT

4 GB

1 GB

Yes, Yes, No

2 (port 0 - 10/100/1000, port 1 - 10/100) 2 (Host V2.0, max. 100 mA)

2 (RS-232), 2 (RS-422/RS-485 isolated), 2 (CAN 2.0b isolated)

No

No

24 Vdc (10 to 32 Vdc)

0.3 A at 24 Vdc (max.)

Electronic Yes (Supercapacitor)

0 to +50°C (vertical installation)

-20°C to +70°C 5-85% RH, non condensing IP66 (front), IP20 (rear)

Type: 2, 4X

187x147 mm (7.36x5.79")

176x136 mm (6.93x5.35")

29+5 mm (1.14+0.19") 0.<u>875 Kg</u>

Emission EN 61000-6-4, Immunity EN 61000-6-2

for installation in industrial environments

Emission EN 61000-6-3, Immunity EN 61000-6-1 for installation in residential environments

cULus: UL508

Yes

Yes

Yes



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 - Version 1.4

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