EXOR

eSMART107B Tech-Note

7" TFT, 800x480, 800 MHz CPU
ARM Cortex-A9 dual core

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

Highlights

eSMART107B combines top performance with a compact design.

It is an effective platform for running browser applications in the industrial environment. The powerful dual-core CPU and the efficient Linux with realtime extensions guarantee and optimal performance under the most demanding conditions.

This product has been optimized as an ideal platform for the Chromium browser, while retaining compatibility with the eSMART family of HMI devices.

The product is fully compatible with JMobile runtime, including OPC UA Server and Client. It is also an open RT Linux platform for running own IoT software applications.
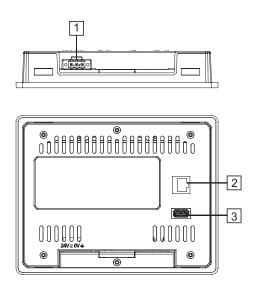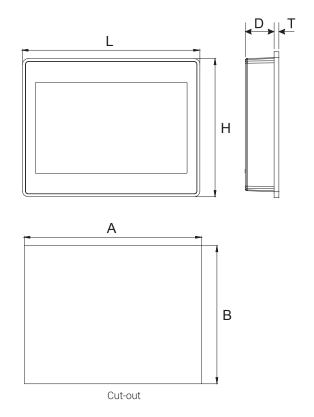
eSMART107B - Technical Data

System Resources	
Display - Colors	7" TFT 16:9 - 64K
Resolution	800x480, WVGA
Brightness	200 Cd/m² typ.
Dimming	to 0%
Touchscreen	Resistive
CPU	ARM Cortex-A9 dual core - 800 MHz
Operating System	Linux RT
Flash	4 GB
RAM	1 GB
Real Time Clock, RTC Back-up, Buzzer	Yes, No, No
Interface	
Ethernet port	1 (port 0 - 10/100/1000)
USB port	1 (Host V2.0, max. 100 mA)
Ratings	
Power supply	24 Vdc (10 to 32 Vdc)
Current Consumption	0.3 A at 24 Vdc (max.)
Input Protection	Electronic
Environment Conditions	
Operating Temp	0 to +50°C (vertical installation)
Storage Temp	-20°C to +70°C
Operating / Storage Humidity	5-85% RH, non condensing
Protection Class	IP66 (front); IP20 (rear) Type: 2, 4X
Dimensions and Weights	
Faceplate LxH	187x147 mm (7.36x5.79")
Cutout AxB	176x136 mm (6.93x5.35")
Depth D+T	29+5 mm (1.14+0.19")
Weight	0.875 Kg
Approvals	
CE	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
UL	cULus: UL508
DNV-GL	Yes
RCM	Yes

1   Power Supply
2   Ethernet port 0 (10/100/1000 Mb)
3   USB port

Cut-out

Ordering Information

Model	Part Number	Description
eSMART107B	+ESMA107BU301	7" TFT, 800x480, Resistive touch, 800 MHz CPU ARM Cortex-A9 dual core, 1GB RAM, 4GB Flash, 1x Ethernet

exorint.com