



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.

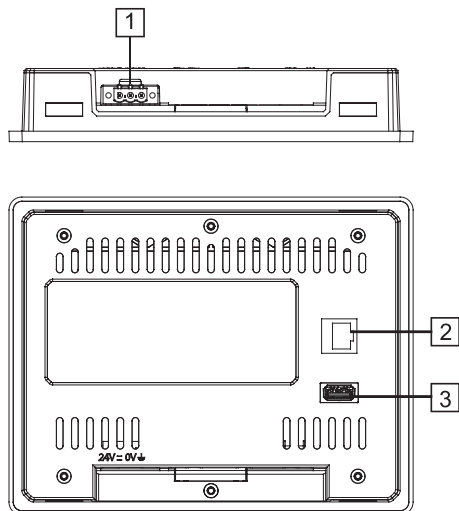
This product has been optimized as an ideal platform for the Chromium browser, while retaining compatibility with the eSMART family of HMI devices.

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.

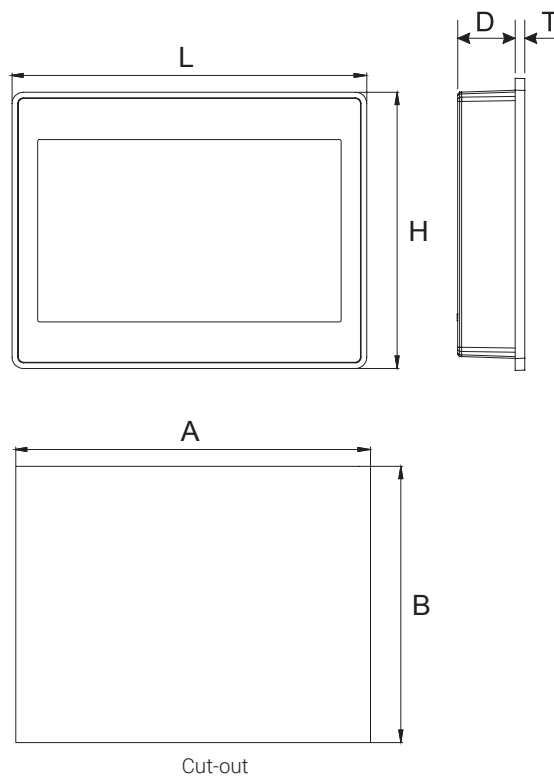
eSMART107B - Technical Data



| System Resources | |
|--------------------------------------|--|
| Display - Colors | 7" TFT 16:9 - 64K |
| Resolution | 800x480, WVGA |
| Brightness | 200 Cd/m ² 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



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 |



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