eSMART107B | Web HMI Tech-Note

Web HMI 7" Resistive touch, 4 GB Flash memory, 1x Ethernet

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

Highlights

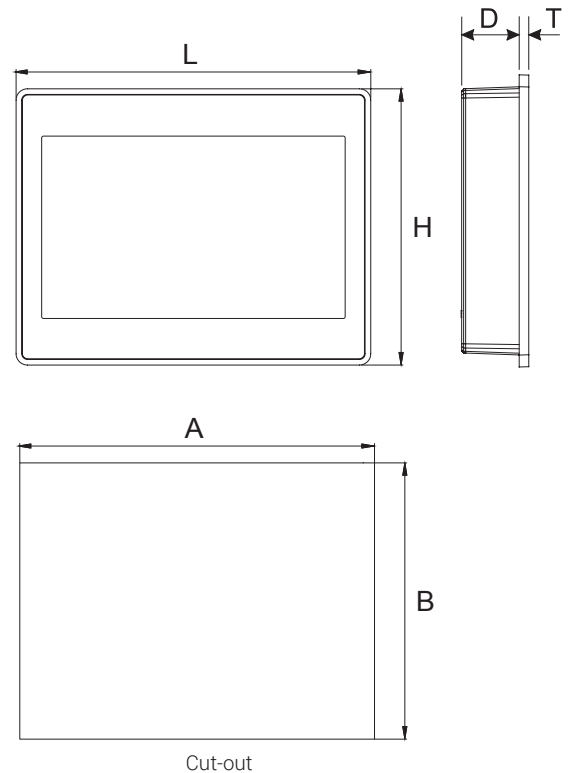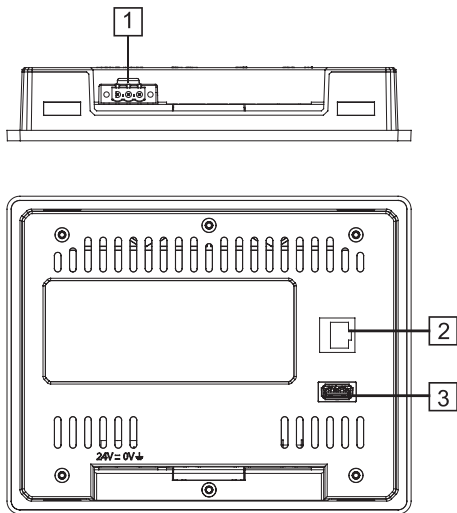eSMART107B combines top performance with a compact design.

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. It is also an open RT Linux platform for running own IoT software applications.

eSMART107B | Web HMI - 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	32-bit RISC dual core - 800MHz
Operating System	Linux RT
Flash	4 GB
RAM	1 GB
Real Time Clock, RTC Back-up, Buzzer	Yes, Yes, No
Interface	
Ethernet port	1 (port 0 - 10/100)
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
Battery	Rechargeable battery, not user-replaceable
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	Electromagnetic Compatibility Directive 2014/30/EU (EMC)
UL	cULus: UL508
RCM	Yes

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

Cut-out

Ordering Information

Model	Part Number	Description
eSMART107B Web	+ESMA107BU30C	Web HMI 7" Resistive touch, 4 GB Flash memory, 1x Ethernet, Web browser