JSmart705 Tech-Note Preliminary

Field-ready HMI 5" TFT, PCAP touchscreen, Ethernet port PoE

- 5" TFT color display, resolution 800x480 pixel, 16M colors, dimmable backlight, PCAP touchscreen with multitouch
- 10/100 Ethernet port PoE
- ARM Cortex-A9 dual core CPU
- Full IP protection; ideal for mounting-arm installation
- Mounts on 22 mm hole
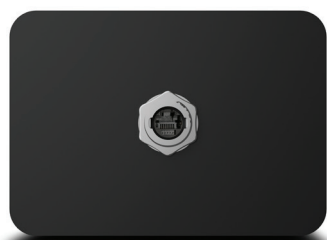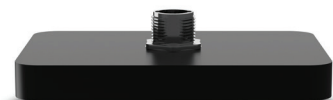- Includes environment and motion sensors

Highlights

JSmart705 is the ideal product for field installation in critical areas. High-resolution 5" display with multitouch PCAP touchscreen with a robust glass front; touchscreen/display bonding for fidget optical performance. Power-over-Ethernet (PoE) for maximum simplicity of connection using standard CAT5 wiring. Full IP protection with the use of dedicated connectors for the maximum flexibility of installation, from mounting arm to a simple M22 hole. The product includes a full set of environment and motion sensors to make this device a true IIoT edge device for Industry 4.0 applications.
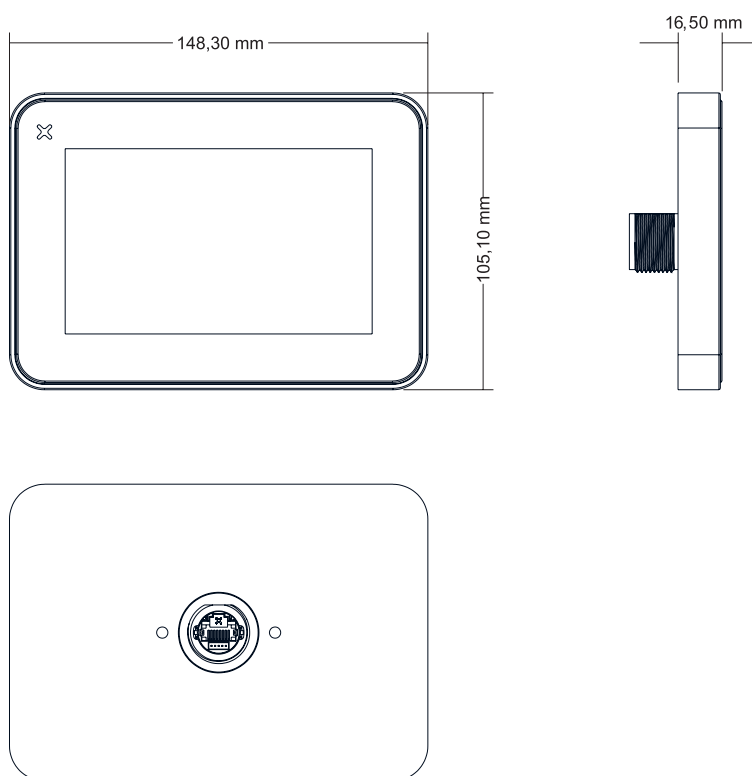
The eX Field product family has been optimized for use as an embedded browser or as a JMobile HMI device.

- Open platform for Linux applications
- Performing HTML5-compatible browser with graphic accelerator
- JMobile runtime with OPC UA Server and Client
- Optional CODESYS V3 PLC for integrated HMI and control applications
- Built-in sensors (temperature and acceleration)

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JSmart705 - Technical Data

System Resources	
Display - Colors	5" TFT – 16M
Resolution	800x480
Brightness	300 cd/m² typ. (high brightness as option)
Dimming	to 0%
Touchscreen	Projected capacitive – Multitouch
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, Yes, No
Interface	
Ethernet port	10/100 PoE 802.3af/at
USB port	1 (Host v. 2.0, request special connector)
Serial port	-
SD card	-
Expansion	-
Ratings	
Power supply	802.3af/at
Current Consumption	10 W max (to be confirmed)
Input Protection	-
Battery	Yes (rechargeable)
Environment Conditions	
Operating Temp	-30° to +55° C (vertical installation)
Storage Temp	-30°C to +85°C
Operating / Storage Humidity	5-85% RH, non-condensing
Protection Class	Front: IP67 (requires appropriate connectors and cables)
Dimensions and Weights	
Faceplate LxH	148.3x105.1 mm
Cutout	-
Depth D+T+T	16.5 mm
Weight	0.5 Kg
Approvals	
CE	Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environment

Ordering Information

Model	Part Number	Description
JSmart705	To be defined	Field-ready HMI 5" TFT with PCAP touchscreen