

JSmart705 Tech-Note

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



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

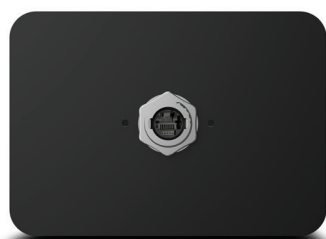
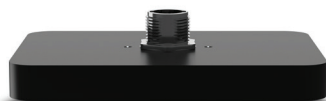
Highlights

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.

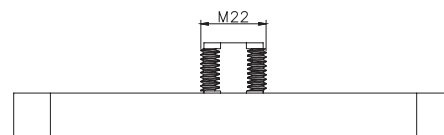
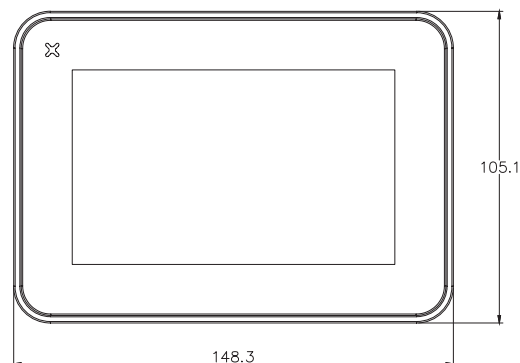
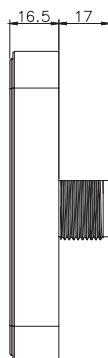
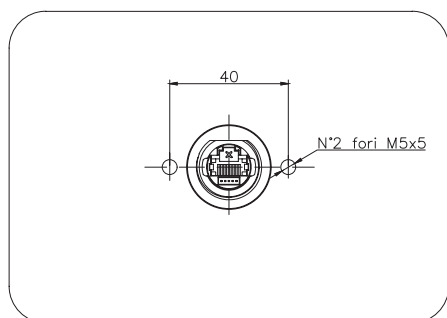
The JSmart product family has been optimized for use as an embedded browser or as a JMobile HMI device.

- 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
- Open platform for Linux applications
- Built-in sensors (temperature and acceleration)

JSmart705 - Technical Data



| System Resources | |
|------------------------------|---|
| Display - Colors | 5" TFT – 16M |
| Resolution | 800x480 |
| Brightness | 300 cd/m² typ. |
| 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 |
| FRAM | 64 KB |
| Real Time Clock, RTC Back-up | Yes |
| Interface | |
| Ethernet port | 10/100 PoE |
| USB port | 1 (Host V2.0, max. 500 mA, available with special cable) |
| LED | 1 RGB |
| Sensors | Temperature, 3-Axis Accelerometer |
| Buzzer | Yes |
| Ratings | |
| Power supply | IEEE 802.3af PoE |
| Power Consumption | 6 W |
| Battery | Yes (rechargeable) |
| Environment Conditions | |
| Operating Temp | -20° to +55° C (vertical installation) |
| Storage Temp | -30°C to +80°C |
| Operating / Storage Humidity | 5-85% RH, non-condensing |
| Protection Class | IP67 (requires appropriate accessories and cables) |
| Dimensions and Weights | |
| Faceplate LxH | 148.3x105.1 mm |
| 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 |
| UL | cULus: UL61010-1 / UL61010-2-201 |



Ordering Information

| Model | Part Number | Description |
|-----------|---------------|--|
| JSmart705 | +JS705BA0U5P1 | Field-ready HMI 5" TFT with PCAP touchscreen |