

# JSmart721 Tech-Note

---

## Field-ready HMI 21.5" TFT, PCAP touchscreen, Ethernet port PoE

- 21.5" TFT color display, resolution 1920x1080 pixel, 16M colors, dimmable backlight
- PCAP Touchscreen Multitouch
- 10/100 Ethernet port PoE
- Wi-Fi Connection
- ARM Cortex-A9 quad core CPU
- Full IP protection; ideal for mounting-arm installation
- Mounts on 22 mm hole
- Includes environment and motion sensors



## Highlights

JSmart721 Field is the ideal product for field installation in critical areas. High-resolution 21.5" display with multi-touch 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.

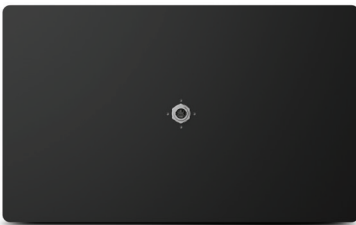
The availability of a Wi-Fi interface enhances the device integration.

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.

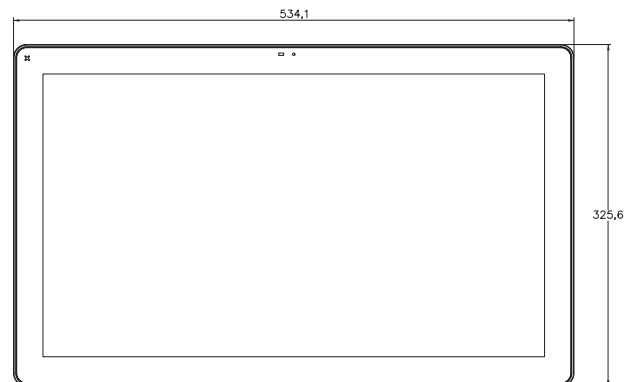
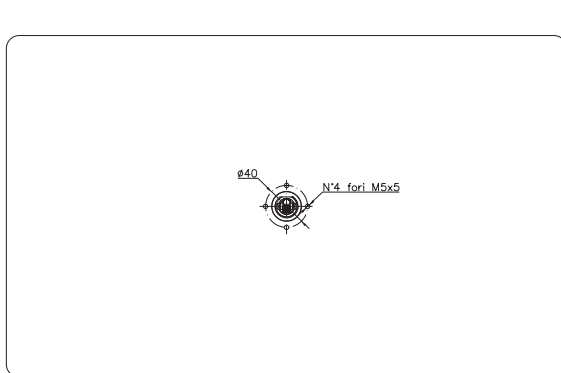
The JSmart product family has been optimized for use as an embedded browser or as a JMobile HMI device.

- 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)

# JSmart721 - Technical Data



System Resources	
Display - Colors	21.5" TFT – 16M
Resolution	1920x1080
Brightness	400 cd/m <sup>2</sup> typ.
Dimming	to 0%
Touchscreen	Projected Capacitive – Multitouch
CPU	ARM Cortex-A9 quad core - 800 MHz
Operating System	Linux RT
Flash	8 GB
RAM	2 GB
FRAM	64 KB
Real Time Clock, RTC Back-up	Yes
Interface	
Ethernet port	10/100 PoE
USB port	1 (Host V2.0, max. 50 mA, available with special cable)
LED	1 RGB
Sensors	Temperature, 3-Axis Accelerometer
Wi-Fi	IEEE 802.11a/b/g
Buzzer	Yes
Ratings	
Power supply	IEEE 802.3bt 4PPoE
Power Consumption	32 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) Type: 1, 12, 4x
Dimensions and Weights	
Faceplate LxH	534.1x325.6 mm (21.02x 12.81")
Depth D+T+T	26.5 mm (1.04")
Weight	6.0 Kg
Approvals	
CE	EN 6231, EN 61010-1, EN IEC 61010-2-201 EN 61000-6-2, EN 61000-6-4, EN 61000-6-1, EN 61000-6-3, ETSI EN 301 489-1, ETSI EN 301 489-17 ETSI EN 300 328
UL	cULus: UL61010-1 / UL61010-2-201
UL	cULus: Class 1 Div 2
RCM	Yes



## Ordering Information

Model	Part Number	Description
JSmart721	+JS721CE1U5P1	Field-ready HMI 21.5" 1920x1080 TFT with PCAP touchscreen, Ethernet port PoE