

JSmart710MFB - Preliminary Tech-Note

10" TFT, PCAP Touch, PoE Ethernet Hygienic design, IP69K

- Full IP protection; ideal for mounting-arm installation
- Includes environment and motion sensors
- Ease of Cleaning
- Real World IP69K Rating
- High Pressure 80°C Water Resistant
- Acid Chemical Resistant
- Food Compliant Gasket
- 10.1" TFT color display, resolution 1280x800 pixel
- PCAP Touchscreen Multitouch
- 10/100 Ethernet port PoE
- Wi-Fi Connection
- Anti-shutter Film protection



Highlights

Where stringent regulations mandate exceptional hygiene in the handling, preparation, processing, and packaging of food, the JSmart710MFB 10" Food and Beverage HMI stands out as the ideal solution for manufacturers and end users.

The food & beverage and pharmaceutical industries operate under far more demanding legislative requirements and hygiene guidelines than traditional industrial environments. To meet these standards, the proven JSmart710M has been refined through the design of the new JSmart710MFB, featuring targeted design enhancements.

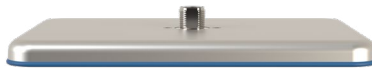
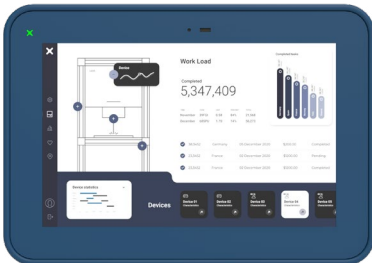
The HMI has been engineered to comply with CEI EN 60529 guidelines, with meticulous attention to eliminating any potential accumulation of food residues, grease, or product dust. Its rugged stainless-steel casing features a highly polished surface that promotes the natural flow off of contaminants.

The enclosure geometry incorporates optimized angles that enable cleaning liquids to drain efficiently while preventing the retention of bacteria or microbes. These design measures, combined with additional structural improvements, allow this device to achieve an IP69 protection rating, ensuring resistance to frequent washdowns with high pressure, high temperature water jets.

The product also offers strong resistance to aggressive cleaning agents, reducing the need for costly protective housings often required for traditional HMI solutions.

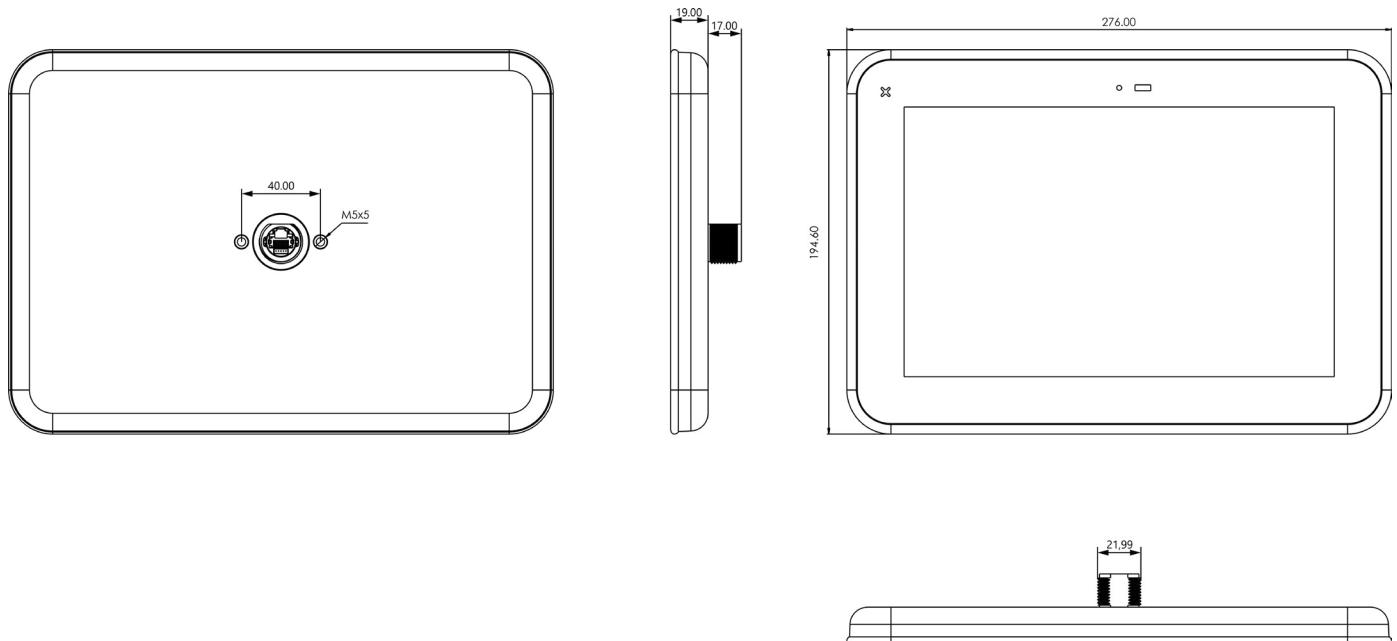
The JSmart710MFB is particularly suited to applications in the food, pharmaceutical, and chemical industries, or any environment where uncompromising hygiene standards are essential to minimize reputational and operational risk.

JSmart710MFB - Preliminary Technical Data



System Resources	
Display - Colors	10.1" TFT LED - 16M - Anti-shutter Film protection
Resolution	1280x800, HD
Brightness	400 Cd/m ² typ.
Dimming	Yes
Touchscreen	Projected Capacitive - Multitouch
CPU	64-bit RISC Quad core - 1.6 GHz
Operating system	Linux RT
Flash	8 GB
RAM	2 GB
FRAM	64 KB
RTClock, 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
NFC	ISO/IEC 14443A
Wi-Fi	IEEE Dual Band 802.11a/b/g/n/ac
Ratings	
Power supply	IEEE 802.3at PoE+
Power Consumption	IEEE 802.3at PoE+ 14W
Battery	Rechargeable Lithium battery, not user-replaceable
Environment Conditions	
Operating Temperature	-20° to +55° C (vertical installation)
Storage Temperature	-30°C to +80°C
Operating / Storage Humidity	5-85% RH, non-condensing
Protection Class	IP69K (requires appropriate accessories and cables) - Type: 1, 12, 4x
Dimensions and Weights	
Faceplate LxH	276 x 194.60 mm (10.87" x 7.66")
Depth D+T	19 + 17 mm (0.75" + 0.67")
Weight	1.700 Kg
Approvals	
CE	Radio Equipment Directive 2014/53/EU (RED)
UL *	cULus: UL61010-1 / UL61010-2-201
RCM	Yes

* Planned 2026



Ordering Information

Model	Part Number	Description
JSmart710MFB	JS710GC2U5FW	PCAP Touch, PoE ethernet, Hygienic design, IP69K, Chromium