eX710MFB Tech-Note

HMI 10” TFT, PCAP Touch
Hygienic design, IP69

- Extensive Guarantee despite no Protective Casing
- Ease of Cleaning
- Real World IP69 Rating
- Glass Strength with Polyester Coating
- High Pressure 80°C Water Resistant
- Perfect Stainless Steel Bezel Design
- Acid Chemical Resistant
- Food Compliant Gasket
- Front panel and gasket guidelines:
  1. DIN EN1672-2
  2. EHEDG / FDA 21 CFR 177.2006

Highlights

Where tough legislation requires that handling, preparation, processing and packaging of food is done to be extremely hygienic, the outstanding eX710FB 10” Food and Beverage HMI is the best choice for manufacturer and final consumer. The food & beverage and pharmaceutical sectors are very different environments from the industrial world because there are a series of legislative requirements and guidelines that are dramatically more onerous. EXOR has adapted its highly successful eX710MFB to meet these challenges. EXOR alters the HMI devices in many areas to comply with the CEI EN 60529 guidelines with an incredible level of attention to eliminating the accumulation of food, grease, and product powder particles.

The rugged stainless-steel fronts are highly polished to allow particles to flow away from the surface. The frame has the optimal angle of contact to the machine surface to both enable cleaning liquids to wash away and also not to allow bacteria or microbes to remain. All these measures and more mean that EXOR can offer this product at a high protection front panel rating of IP69: resistance to frequent washing with water at high pressure and high temperature. Resistance to highly aggressive cleaning substances is a plus. No longer will you need to contain the HMI devices within a costly cabinet as is so often seen. Industry sectors that might require this series are the food, pharmaceutical and chemical industries or anywhere, where the highest level of attention to hygiene is a requirement for reputational risk.

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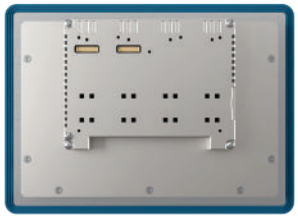
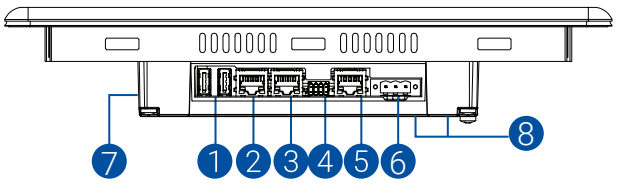
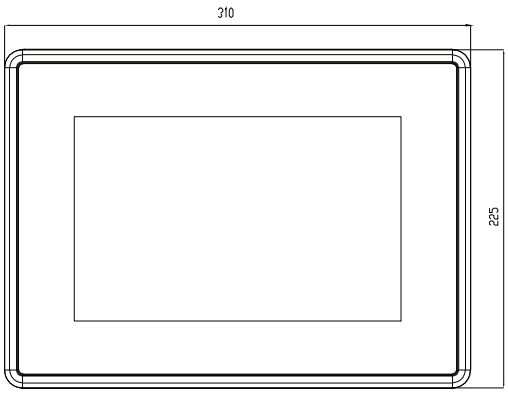
eX710MFB Technical Data

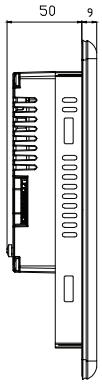


System Resources	
Display - Colors	10.1" TFT LED - 16M
Resolution	1280x800, HD
Brightness	500 Cd/m2 typ.
Dimming	Yes
Touchscreen	Projected Capacitive, Multitouch
CPU	64-bit RISC quad core - 1.6 GHz
Operating System	Linux
Flash	8 GB
RAM	2 GB
FRAM	64 KB
Real Time Clock	Yes
RTC Back-up	Rechargeable Lithium battery, not user-replaceable
Interface	
Ethernet port	3 (port 0 - 10/100/1000, port 1 - 10/100, port 2 - 10/100)
USB port	2 (Host V2.0, max. 500 mA)
Serial port	1 (RS-232, RS-485, RS-422, software configurable) Max 3 serial ports using plug-in modules.
SD card	Yes
Expansion	2 slot for plug in modules
Ratings	
Power supply	24 Vdc (10 to 32 Vdc)
Current Consumption	1.0 A at 24 Vdc (max.)
Input Protection	Electronic
Environment Conditions	
Operating Temperature	-20° to +60 °C (vertical installation) - Plug-in modules and USB devices may limit max temperature to +50 °C
Storage Temperature	-20°C to +70°C
Operating / Storage Humidity	5-85% RH, non condensing
Protection Class	IP69 (front), IP20 (rear) - Type: 12, 4X Use of clamping frame may be required
Dimensions and Weights	
Faceplate LxH	310x225 mm (12.20x8.86")
Cutout AxB	271x186 mm (10.67x7.32)
Depth D+T	50 + 9 mm (1.97"+0.35")
Weight	3.4 Kg
Approvals	
CE	Electromagnetic Compatibility Directive 2014/30/EU (EMC)
UL*	cULus: UL61010-1 / UL61010-2-201
RCM	Yes

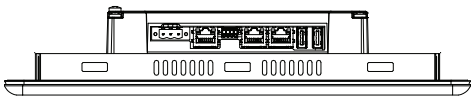
* Roadmap 2024







1 USB ports 1 and 2
2 Ethernet port 2 (10/100 Mb)
3 Ethernet port 1 (10/100 Mb)
4 Serial port
5 Ethernet port 0 (10/100/1000 Mb)
6 Power supply
7 SD Card slot
8 2 Expansion slots for plugin modules



Ordering Information

Model	Ordering Code	Part Number	Description
eX710MFB	101006600U-0000	+EX710MU4F1	HMI 10" PCAP Touch, 3x Ethernet, Hygienic design, IP69, JMobile runtime

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