eX707FB Tech-Note

Food & Beverage 7” TFT
ARM Cortex-A9 dual core - 800 MHz

- 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 eX707FB 7” Food and Beverage HMI is the best choice for manufacturer and final consumer.

No other company offers such specialized solutions to the everyday problems faced in the Food and Beverage industry and in particular the meat processing sector.

The food & beverage and pharmaceutical sectors are very different environments from the industrial world. Although the set up of the production facilities might seem similar, there are a series of legislative requirements and guidelines that are dramatically more onerous.

EXOR has adapted its highly successful eX707 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.
eX707FB - Technical Data

**System Resources**

<table>
<thead>
<tr>
<th>Display - Colors</th>
<th>7&quot; TFT 16:9 LED - 16M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>800x480, WVGA</td>
</tr>
<tr>
<td>Brightness</td>
<td>500 Cd/m² typ.</td>
</tr>
<tr>
<td>Dimming</td>
<td>0%</td>
</tr>
<tr>
<td>Touchscreen</td>
<td>Projected Capacitive, Multouch</td>
</tr>
<tr>
<td>CPU</td>
<td>ARM Cortex-A9 dual core 800 MHz</td>
</tr>
<tr>
<td>Operating System</td>
<td>Linux RT</td>
</tr>
<tr>
<td>Flash</td>
<td>4 GB</td>
</tr>
<tr>
<td>RAM</td>
<td>1 GB</td>
</tr>
<tr>
<td>Real Time Clock, RTC Back-up, Buzzer</td>
<td>Yes</td>
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</tbody>
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**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) |
| SD card       | Yes |
| Expansion     | 2 slot for plug in modules |

**Features**

- **Power supply**: 24 Vdc (10 to 32 Vdc)
- **Current Consumption**: 0.7 A at 24 Vdc (max.)
- **Input Protection**: Electronic
- **Battery**: Rechargeable Lithium battery, not user-replaceable

**Environment Conditions**

- **Operating Temp**: -20° to +60 °C (vertical installation)
- **Storage Temp**: -20°C to +70°C
- **Operating / Storage Humidity**: 5-85% RH, non condensing
- **Protection Class**: IP69 (front), IP20 (rear) Type: 12, 4X

**Dimensions and Weights**

- **Faceplate LxH**: 217x177 mm (8.54x6.96")
- **Cutout AxB**: 176x136 mm (6.93x5.35")
- **Depth D+T**: 45+10 mm (1.77+0.4")
- **Weight**: 2.5 Kg

**Approvals**

- CE: Emission EN 61000-6-4, Immunity EN 61000-6-2 for installation in industrial environments
- UL: cULus: UL61010-1 / UL61010-2-201
- RCM: Yes

**Ordering Information**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>eX707FB</td>
<td>+EX707U4F1</td>
<td>7&quot; widescreen TFT color projected capacitive touchscreen. Stainless steel bezel. Ethernet and USB interfaces. JMobile runtime. Blue front panel</td>
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</tbody>
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