

# XA105 - Preliminary Tech Note

**5" Capacitive Sunlight-readable, IP66/69K, 2x CAN, 1x Eth., Wi-Fi, Multiprotocol, JMobile runtime**

- 5" capacitive display, sunlight-readable for visibility in all lighting
- IP66/69K-certified for high protection against water, dust, and pressure
- 2x CAN interfaces for seamless integration with vehicle systems
- 1x Ethernet port for networking flexibility
- Multiprotocol support for industrial and mobile standards
- JMobile runtime enables customizable UIs, data logging, and remote access



## Highlights

Engineered for the demands of mobile machinery and commercial vehicles, this 5" capacitive sunlight-readable HMI brings powerful edge intelligence to harsh, dynamic environments. With a robust IP66/69K-rated housing, and built-in Wi-Fi and CAN interfaces, it supports real-time control, monitoring, and customization right at the source.

Whether in construction, agriculture, logistics, or off-highway applications, this HMI delivers rugged reliability with the flexibility of JMobile runtime and a multiprotocol framework.

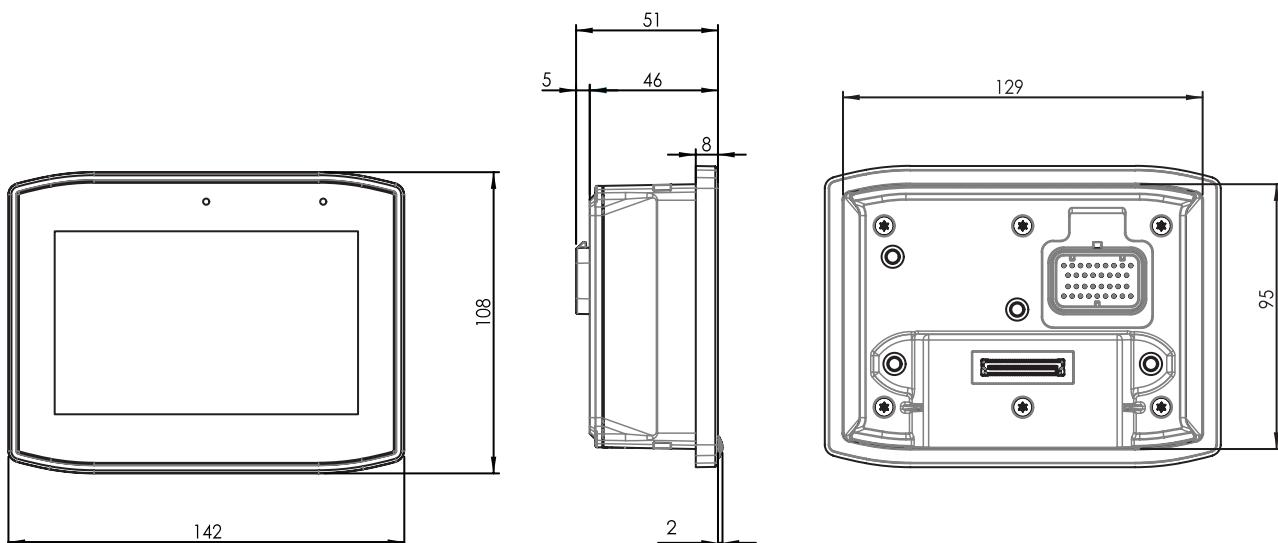
Optional features for XA105 include:

- Integrated push keys for enhanced HMI interaction
- Built-in Wi-Fi and Bluetooth connectivity
- Internal acceleration and temperature sensors for advanced diagnostics
- Plug-in expansion module for external camera integration

# XA105 - Preliminary Technical Data



| System Resources             |   |
|------------------------------|---|
| Display - Colors             | 5" TFT - 64K  |
| Resolution                   | 800x480   |
| Brightness                   | 500 Cd/m <sup>2</sup> typ.  |
| Dimming                      | Yes   |
| Touchscreen                  | Projected Capacitive, Multitouch, Optical Bonding                               |
| CPU                          | 32-bit RISC Dual Core 650 MHz   |
| Operating System             | Linux RT  |
| Flash                        | 4 GB (eMMC pSLC)  |
| RAM                          | 1 GB  |
| FRAM                         | 64 KB   |
| Real Time Clock, RTC Back-up | Yes, rechargeable battery   |
| Interface                    |   |
| Ethernet port                | 1 ports 10/100 Mbit/s   |
| CAN port                     | 2 (2.0B, FD, isolated, up to 1 Mbit/s)  |
| USB port                     | 2 (Host v2.0 200mA)   |
| Serial port                  | RS-485/RS-232 (optional)  |
| Digital Inputs               | 4 (High side 0 - 32 V)  |
| Digital Output               | 4 (Low side 500 mA)   |
| Wi-Fi                        | IEEE 802.11a/b/g (optional)   |
| Sensors                      | Temperature, 3-Axis Accelerometer, Environment Light                            |
| Buzzer                       | Yes   |
| Expansion                    | 1 slot for plug-in modules  |
| Ratings                      |   |
| Power supply                 | 24 Vdc (8 to 32 Vdc)  |
| Power consumption            | 0.25A at 24 Vdc (max.)  |
| Power management key         | Yes   |
| Environment Conditions       |   |
| Operating Temperature        | -30°C to +65°C  |
| Storage Temperature          | -40°C to +85°C  |
| Operating / Storage Humidity | 5-85% RH, non condensing  |
| Protection Class             | IP66, IP69K (front part) for the version without keys                           |
| Dimensions and Weights       |   |
| Faceplate LxH                | 142x108 mm (5.59 x4.25") without keys<br>142x108 mm (5.59 x4.25") with keys     |
| Cutout AxB                   | 129,5x95,5 mm (5.10x3.76") without keys<br>129,5x95,5 mm (5.10x3.76") with keys |
| Depth D                      | 51 mm (2.00") without keys<br>53 mm (2.08") with keys                           |
| Weight                       | 0,5 Kg without keys<br>0,6 Kg with keys   |
| Approvals                    |   |
| CE                           | Radio Equipment Directive 2014/53/EU (RED)                                      |
| RCM                          | Yes   |



## Ordering Information

| Model | Part Number   | Description   |
|-------|---------------|---|
| XA105 | To be defined | 5" Capacitive Sunlight-readable, IP66/69K, 2x CAN, 1x Eth., Wi-Fi, Multiprotocol, JMobile runtime |