

XA107 - Tech Note

7" Capacitive Sunlight-readable, IP6K6/6K9K, 2x CAN, 1x ETH, Wi-Fi, Multiprotocol, JMobile runtime

- 7" capacitive display, sunlight-readable, UV filter
- IP6K6/IP6K9K-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

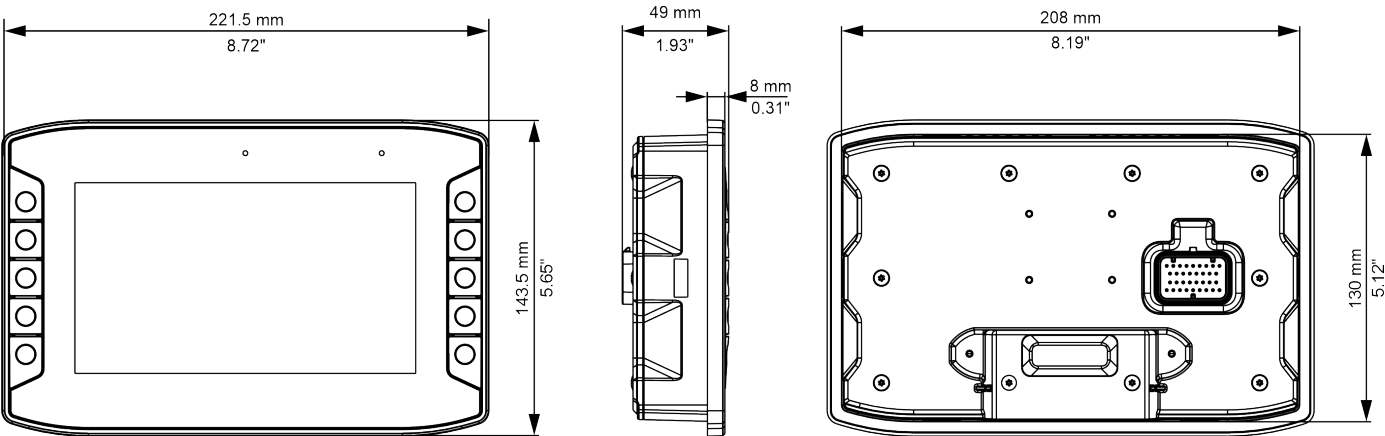
Engineered for the demands of mobile machinery and commercial vehicles, this 7" capacitive sunlight-readable HMI brings powerful edge intelligence to harsh, dynamic environments. With a robust IP6K6/6K9K rated housing, and built-in Wi-Fi and CAN interfaces, it supports real-time control, monitoring, 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.

XA107 - Technical Data



System Resources	
Display - Colors	7" TFT - 16M Colors
Resolution	1024 x 600
Brightness	500Cd/m² typ.
Dimming	Yes
Touchscreen	Projected Capacitive, Multitouch, Optical Bonding, UV filter
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, isolated, up to 1 Mbit/s)
USB port	2 (Host v.2.0 200mA)
Serial port	RS-485/RS-232 (RX / TX only)
Digital Inputs	4 (High side 0 - 32 V)
Digital Output	4 (Low side 500 mA)
Wi-Fi	IEEE 802.11a/b/g
Sensors	Temperature, 3-Axis Accelerometer, Environment Light
Buzzer	Yes
Expansion	Provision of 1 slot for a plugin module
Status LED	1 (RGB)
Function keys	Membrane keyboard with 10 user-programmable keys (Optional)
Ratings	
Power supply	12/24 Vdc (8 to 32 Vdc)
Power consumption	2.80A at 12 Vdc Max. 1.45A at 24 Vdc Max.
Environment Conditions	
Operating Temperature	-30°C to +70°C
Storage Temperature	-40°C to +80°C
Operating / Storage Humidity	5-85% RH, non condensing
Protection Class	IP6K6 (ISO 20653), IP6K9K mounted on the front panel (models without keys)
Dimensions and Weights	
Faceplate	221.5 x 143.5 mm (8.72 x 5.65") without keys 221.5 x 143.5 mm (8.72 x 5.65") with keys
Cutout	209 x 131 mm (8.23 x 5.16") without keys 209 x 131 mm (8.23 x 5.16") with keys
Depth	47 mm (1.85") without keys 49 mm (1.93") with keys
Weight	0.9 Kg without keys 1.05 Kg with keys
Approvals	
CE	Radio Equipment Directive 2014/53/EU (RED)



Ordering Information

Model	Part Number	Description
XA107-A021	101005700U-0000	7" Capacitive Sunlight-readable, 2x CAN, 1x ETH, Wi-Fi, Multiprotocol, JMobile runtime
XA107-A031	101005700U-0001	7" Capacitive Sunlight-readable, with Keys, 2x CAN, 1x ETH, Wi-Fi, Multiprotocol, JMobile runtime