F110

Flexem Automation Co., Ltd. · F Series

FEATURES

10.1-inch 16:10 capacitive-touch HMI panel with 800×1280 (portrait) / 1280×800 (landscape) resolution, single Ethernet port, and 7-inch panel cutout form factor.

Hardware

CPU:
1 GHz dual-core Cortex-A7

Memory:
256 MB DDR3 + 256 MB eMMC

SD card slot:
Not available

Real-time clock:
Not available

Bluetooth:
Supported

Screen

Display:
10.1" 16:10 TFT LCD

Resolution:
800×1280 (portrait), 1280×800 (landscape)

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Colors:
24-bit

Brightness:
400 cd/m²

Viewing angles (T/B/L/R):
85°/85°/85°/85°

Touch panel:
Glass+Glass projected capacitive multi-touch

Backlight:
Not available

LCD lifetime:
Not available

Communication

Built-in ports:
1×RJ45 (10/100 Mbps auto-adaptive); 1×USB Type-C 2.0; 1×USB Type-A 2.0; COM1 (RS232/RS485/RS422); COM2 (RS485); COM3 (RS232); COM4 (RS485)

Protocols:
Not published in official datasheet

Communication expansion:
None

Programming software:
FStudio

Built-in speaker:
Yes

I/O

Electrical

Supply voltage:
DC 24V nominal, operating range DC 9–28V

Power consumption:
<10W maximum

Power protection:
Lightning surge protection

Power interruption tolerance:
<5 ms

EMC:
EN61000-6-2:2019, EN61000-6-4:2019, RoHS; lightning surge ±1 kV, group pulse ±2 kV; electrostatic contact 4 kV, air discharge 8 kV

Environmental

Operating temperature:
-10 to 60 °C

Storage temperature:
-20 to 70 °C

Relative humidity:
10 to 90 %RH (non-condensing)

Protection rating:
Front IP60, rear IP20

Vibration endurance:
10–25 Hz (X/Y/Z direction, 2G/30 min)

UV resistance:
Not for use in high UV environments

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Cooling:
Natural convection

Physical

Dimensions (H×W×D):
157.8×248.8×32.5 mm

Panel cutout (W×H):
138×192 mm (portrait), 192×138 mm (landscape)

Weight:
~0.90 kg (about 900 g, supplier-reported)

Enclosure:
Aluminum alloy front + ABS rear

Installation:
Panel mount

Lifecycle

Current Flexem F Series product line; official product page active as of 2026-09 (Last verified:
2026-09)