FE9121M

Flexem Automation Co., Ltd. · FE9000 Series

FEATURES

12.1-inch 4:3 industrial resistive-touch HMI panel with 1024×768 resolution and one Ethernet port.

Hardware

CPU:
1.2 GHz quad-core Cortex-A53

Memory:
4 GB Flash + 512 MB DDR3

SD card slot:
Not available

Real-time clock:
Built-in

Screen

Display:
12.1" 4:3 TFT LCD

Resolution:
1024×768

Colors:
16-bit

Brightness:
350 cd/m²

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Viewing angles (T/B/L/R):
80°/80°/80°/80°

Touch panel:
4-wire industrial resistive touchscreen

Backlight:
LED

LCD lifetime:
50,000 hours

Communication

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

Protocols:
Not published in official datasheet

Communication expansion:
None

Programming software:
FStudio

I/O

Electrical

Supply voltage:
DC 24V nominal, operating range DC 18–28V

Power consumption:
<15W maximum

Power protection:
Isolated power module with 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 IP65, rear IP20

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

UV resistance:
Not for use in high UV environments

Cooling:
Natural convection

Physical

Dimensions (H×W×D):
240×310×48.5 mm

Panel cutout (W×H):
291×219 mm

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Weight:
~2.71 kg (about 2710 g, supplier-reported)

Enclosure:
Aluminum alloy with galvanized sheet powder coating

Installation:
Panel mount

Lifecycle

Current Flexem FE9000 series product line; official product page active as of 2026-09 (Last verified:
2026-09)