# FE9100M

Flexem Automation Co., Ltd. · FE9000 Series

## FEATURES

10.1-inch 16:9 industrial resistive-touch HMI panel with 1024×600 resolution and dual Ethernet ports.

### Hardware

**CPU:**
1.2 GHz quad-core Cortex-A53

**Memory:**
8 GB Flash + 1 GB DDR3

**SD card slot:**
Not available

**Real-time clock:**
Built-in

### Screen

**Display:**
10.1" 16:9 TFT LCD

**Resolution:**
1024×600

**Colors:**
16-bit

**Brightness:**
400 cd/m²

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

**Touch panel:**
4-wire industrial resistive touchscreen

**Backlight:**
LED

**LCD lifetime:**
50,000 hours

### Communication

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

**Protocols:**
Not published in official datasheet

**Communication expansion:**
None

**Programming software:**
FStudio

### 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 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):**
214×274×39 mm

**Panel cutout (W×H):**
260×202 mm

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**Weight:**
~1.45 kg (about 1450 g, supplier-reported)

**Enclosure:**
Aluminum alloy

**Installation:**
Panel mount

## Lifecycle

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