# FE7070C

Flexem Automation Co., Ltd. · FE7000 Series

## FEATURES

7-inch 16:9 resistive-touch HMI panel with 800×480 resolution, no built-in Ethernet port.

### Hardware

**CPU:**
1 GHz dual-core Cortex-A7

**Memory:**
128 MB DDR3 + 256 MB Flash

**SD card slot:**
Not supported

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

**Bluetooth:**
Not supported

### Screen

**Display:**
7" 16:9 TFT LCD

**Resolution:**
800×480

**Colors:**
24-bit

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**Brightness:**
350 cd/m²

**Viewing angles (T/B/L/R):**
50°/70°/70°/70°

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

**Backlight:**
LED

**LCD lifetime:**
50,000 hours

### Communication

**Built-in ports:**
1×USB Type-C OTG; 1×USB Type-A; no Ethernet; COM1 (RS232/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:**
0 to 50 °C

**Storage temperature:**
-20 to 60 °C

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

**Protection rating:**
Front IP65 (NEMA panel), 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):**
145×204×34 mm

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**Panel cutout (W×H):**
190×136 mm

**Weight:**
~0.48 kg (about 476 g, supplier-reported)

**Enclosure:**
Engineering plastic, black

**Installation:**
Panel mount

## Lifecycle

**Current Flexem FE7000 series product line; official product page active as of 2026-09 (Last verified:** 2026-09)