

FPad712

Flexem Automation Co., Ltd. · FPad Series

FEATURES

12.1-inch 16:10 web-based HMI panel with 1280×800 resolution, quad-A72/quad-A53 CPU, dual Gigabit Ethernet, and Linux OS.

Hardware

CPU:

4×Cortex-A72 + 4×Cortex-A53, up to 2.2 GHz

Memory:

2 GB DDR4 + 16 GB eMMC

OS:

Linux

SD card slot:

Not available

Real-time clock:

Built-in

Programming software:

FStudio Unified

Screen

Display:

12.1" 16:10 TFT LCD

Resolution:

1280×800

Colors:

24-bit

Brightness:

400 cd/m²

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:

2×Gigabit RJ45 (10/100/1000 Mbps auto-adaptive); 2×USB 3.0 Type-A; COM1 (RS232/RS485/RS422); COM2 (RS485/RS422); COM3 (RS232)

Protocols:

Not published in official datasheet

Communication expansion:

None

I/O

Electrical

Supply voltage:

DC 24V nominal, operating range DC 18–28V

Power consumption:

<15W 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):**

228×313×38 mm

Panel cutout (W×H):

295×217 mm

Weight:

~2.30 kg (about 2300 g, supplier-reported)

Enclosure:

Non-ferrous alloy

Installation:

Flush mount / VESA mount

Lifecycle

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