FE6156H

Flexem Automation Co., Ltd. · FE6000 Series

FEATURES

Flexem 15.6-inch wide-screen resistive-touch IIoT HMI with dual Ethernet and aluminum-alloy enclosure.

Hardware

CPU:
1GHz ARM Cortex-A8

Memory:
256MB Flash + 512MB DDR3

Real-time clock:
Built-in

SD card slot:
MicroSD (TF) card slot

Screen

Display:
15.6" 16:9 TFT LCD

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

Resolution:
1920×1080

Colors:
65K

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Brightness:
250 cd/m²

Backlight:
LED

LCD lifetime:
50,000 hours

Touch panel:
4-wire resistive touch screen (surface hardness 4H)

Communication

Built-in ports:
USB Slave 2.0 ×1 (MicroUSB), USB Host 2.0 ×1 (Type A)

Ethernet:
2×10/100M adaptive (RJ45)

Serial ports:
COM1/COM3: RS232/RS485/RS422; COM2: RS485/RS422

Programming software:
FStudio

Program download:
USB Slave / U-disk / Ethernet

Protocols:
Not published in official datasheet

Communication expansion:
FLink / FLink-2G-A / FLink-4G-A / FLink-4G-C / FLink-WiFi-A IIoT expansion module slot

I/O

Electrical

Supply voltage:
DC 24V (range DC 18 to 28 V)

Power consumption:
<18W maximum

Power protection:
Isolated power module with lightning and surge protection

Power interruption tolerance:
<5ms maximum

EMC:
EN61000-6-2:2005, EN61000-6-4:2007, RoHS; surge immunity ±1kV, EFT ±2kV, ESD contact 4kV / air 8kV

Environmental

Operating temperature:
0 to 50 °C

Storage temperature:
-20 to 60 °C

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

Vibration endurance:
10 to 25 Hz, 2G in X/Y/Z for 30 minutes

Protection rating:
Front IP65 (with NEMA panel), rear IP20

Physical

Enclosure:
Aluminum alloy

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Panel cutout (W×H):
380×245 mm

Dimensions (H×W×D):
256×394×53.3 mm

Weight:
~2.500 kg (2500 g)

Lifecycle

Coexists with FE6300 successor generation; per official upgrade notice (2024-01-31), FE6156H remains in production; spec sheet published 2024-03-11 and updated 2025-06-18 (Last verified:
2026-09)