



Flexio Fanless Industrial Embedded Computer

Part: F1301601 | **Model:** Flexio F1 - Intel® Core i3 – USB to 2-Port RS-232, RS-422, RS-485

The Flexio Fanless Industrial Embedded Computer: Flexible, Limitless, Embedded, Xpandable I/O – and a whole lot more. The Flexio Computer, powered by an Intel industrial processor, features RS-232/422/485 software configurable serial ports, USB 3.2 Gen 2 ports Type A, USB 3.2 Gen 2 ports Type C (capable of DisplayPort), Gigabit Ethernet port, 2.5 Gigabit Ethernet port, DisplayPort, and HDMI port as a base system with flexible, configurable I/O options to fulfill specific application requirements. With a fanless design, the Flexio has a 0° to 50°C operating temperature range and is compatible with Windows 11, Windows 10 IoT 2021 LTSC, and Ubuntu Linux.

Built for Control & Automation with Intel Processors

Fueled by an Intel Core processor, the Flexio Fanless Industrial Embedded Computer is intentionally designed to provide power, connectivity, and performance. This combination makes the Flexio an ideal controller for industrial automation, control, point-of-sale, test and measurement, medical, and security applications. With the latest industrial processors from Intel, the Flexio is ready for deployment with support for Windows 11, Windows 10 IoT 2021 LTSC, and Ubuntu Linux.

Fanless Design & Unmatched Reliability

With support for DIN rail or VESA mounting, the Flexio Fanless Industrial Embedded Computer is designed for easy installation in existing frameworks and for new system integrations as well. The Flexio features a solid-state design for an extended lifespan, diminished opportunities for failure, and quiet operation. With a rugged enclosure and carefully defined tolerances through analytics and statistical performance modeling, the Flexio has fully optimized thermal transfer.

Flexible I/O Configurability

With flexible connectivity designed by the leader in I/O engineering, the Flexio Fanless Industrial Embedded Computer combines industrial processing with application-specific I/O to meet requirements. Standard I/O includes RS-232/422/485 software configurable serial ports, USB 3.2 Gen2 ports, USB 3.2 Gen 2 port Type-C (capable of DisplayPort), Gigabit Ethernet port 2.5 Gigabit Ethernet port, DisplayPort, and HDMI port. Flexio computers offer I/O configurations for a variety of USB to serial, USB to digital, and USB to analog-based control systems.

USB to 8 A/D, 2 Optically Isolated

Inputs, and 2 Solid-State

Relay Outputs

- (8) 12-bit Single-Ended, or
- (4) Differential Inputs
- (2) Optically Isolated Inputs
- (2) SPST Form A Solid-State Relay Outputs

USB to 2-Port

RS-232, RS-422, RS-485

(2) DE9 Ports

Software Selectable Interface

4-Port USB 2.0 Hub

(4) Downstream USB Ports:

- (1) CDP and 3 SDP
- (1) CDP Supplies Up to 1.5A to a Connected Device
- (3) SDP Supply Up to 500mA to Each Connected Device

USB to 4 Optically Isolated Inputs/4

Form C Relay Outputs

- (4) Optically Isolated, Dry Contact Inputs
- (4) SPDT Form C Relay Outputs

Need even more I/O? Flexio Fanless Industrial Rugged Computers are fully compatible with the leading Seal/O data acquisition devices for limitless I/O configuration. And for even more rugged performance in environments subject to extreme temperatures or intense shock and vibration, check out the Relio R1 Rugged.

Features & Specifications

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Specifications

Family	Flexio
CPU Type	Intel Core i3
CPU	Core i3-1220PE
Memory	DDR5 4800, Dual Channel SODIMM x 2, Max.64GB, Non-ECC
Storage	PCIe Gen 3 NVMe 128 GB, 256GB, 512GB, or 1TB (not included)
OS	Windows 11 Windows 10 IOT 2021 LTSC Ubuntu Linux
BIOS	UEFI
Display Support	(1) DisplayPort (1) HDMI (1) USB 3.2 Gen 2 port Type C (capable of DisplayPort)
Max Video	HDMI 2.1 x 1, up to 8K x 4K@60Hz or 4K x 2K@120Hz DP 1.4 x 1, up to 7680 x 4320@60Hz 30bpp (support DP++) eDP 1.4 x 1, up to 3840 x 2160 (optional)
Audio	Mic In/Line Out
Networking	(1) Intel® I219 1GbE, RJ-45 (1) Intel® I226 2.5GbE, RJ-45
Serial Ports	(4) RS-232/422/485 (2) DE9 Ports - Software Selectable Interface
USB 3.0 Ports	(3) USB 3.2 Gen 2 ports Type A (1) USB 3.2 Gen 2 ports Type C
Security	TPM 2.0
Operating Voltage	9-36V DC
Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity Range	5 – 90% Relative Humidity, Non-Condensing
Dimensions	10.5" (L) X 5.324" (W) X 3.145" (H)