



# Flexio Fanless Industrial Embedded Computer

**Part:** F1301602 | **Model:** Flexio F1 – Intel® Core i3 – USB to 4 Optically Isolated Inputs/4 Form C Relay Outputs

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 (4) RS-232/422/485 software configurable serial ports, (3) USB 3.2 Gen 2 ports Type A, (1) USB 3.2 Gen 2 ports Type C (capable of DisplayPort), (1) Gigabit Ethernet port (1) 2.5 Gigabit Ethernet port, (1) DisplayPort, and (1) 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 (4) RS-232/422/485 software configurable serial ports, (3) USB 3.2 Gen2 ports, (1) USB 3.2 Gen 2 port Type-C (capable of DisplayPort), (1) Gigabit Ethernet port (1) 2.5 Gigabit Ethernet port, (1) DisplayPort, and (1) 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.

<b>USB to 8 A/D, 2 Optically Isolated Inputs, and 2 Solid-State Relay Outputs</b> (8) 12-bit Single-Ended, or (4) Differential Inputs (2) Optically Isolated Inputs (2) SPST Form A Solid-State Relay Outputs	<b>USB to 2-Port RS-232, RS-422, RS-485</b> (2) DE9 Ports Software Selectable Interface	<b>4-Port USB 2.0 Hub</b> (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	<b>USB to 4 Optically Isolated Inputs/4 Form C Relay Outputs</b> (4) Optically Isolated, Dry Contact Inputs (4) SPDT Form C Relay Outputs
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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

### Flexio Fanless Industrial Embedded Computer

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#### Specifications

<b>Family</b>	Flexio
<b>CPU Type</b>	Intel Core i3
<b>CPU</b>	Core i3-1220PE
<b>Memory</b>	DDR5 4800, Dual Channel SODIMM x 2, Max.64GB, Non-ECC
<b>Storage</b>	PCIe Gen 3 NVMe 128 GB, 256GB, 512GB, or 1TB (not included)
<b>OS</b>	Windows 11 Windows 10 IOT 2021 LTSC Ubuntu Linux
<b>BIOS</b>	UEFI
<b>Display Support</b>	(1) DisplayPort (1) HDMI (1) USB 3.2 Gen 2 port Type C (capable of DisplayPort)
<b>Max Video</b>	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)
<b>Audio</b>	Mic In/Line Out
<b>Networking</b>	(1) Intel® I219 1GbE, RJ-45 (1) Intel® I226 2.5GbE, RJ-45
<b>Serial Ports</b>	(4) RS-232/422/485
<b>USB 3.0 Ports</b>	(3) USB 3.2 Gen 2 ports Type A (1) USB 3.2 Gen 2 ports Type C
<b>Number of Inputs/Outputs</b>	(4) Optically Isolated, Dry Contact Inputs (4) SPDT Form C Relay Outputs
<b>Security</b>	TPM 2.0
<b>Operating Voltage</b>	9-36V DC
<b>Operating Temperature</b>	0°C to 50°C (32°F to 122°F)
<b>Storage Temperature</b>	-40°C to 85°C (-40°F to 185°F)
<b>Humidity Range</b>	5 – 90% Relative Humidity, Non-Condensing
<b>Dimensions</b>	10.5" (L) X 5.324" (W) X 3.145" (H)