

Alfa

ALFA Series

Compact Industrial Computer



FEATURES

- Intel Elkhart Lake / Tiger Lake CPU with fanless design
- Up to 1TB high-speed M.2 PCIe SSD
- Plenty of ports to connect peripherals, signage, displays, etc
- Support for USB 3.2 (Tiger Lake) & USB 3.0 (Elkhart Lake)
- Available for Windows and Linux Ubuntu
- Powered USB option
- Easy VESA mounting (option)

Specifications



| Elkhart Lake | | | |
|------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------|
| Item | ALFA MINI | ALFA | ALFA PRO |
| CPU | Intel® Celeron® J6412 (Elkhart Lake) | | |
| Memory | DDR4 4GB, 8GB, 16GB, 32G | | |
| Storage | M.2 PCIe SSD: 128G / 256G / 512G / 1TB | | |
| I/O Interface | 3 x serial ports, RS-232 (DB9), 0V/5V/12V selected in BIOS (COM1, COM2, COM3) | 4 x serial ports, RS-232 (DB9), 0V/5V/12V selected in BIOS (COM1, COM2, COM3, COM4) | |
| | 1 x LAN (IEEE 802.3 10/100/1000 Mbps Ethernet, RJ45) | | |
| | 1 x RJ11 port with support for 2 cash drawers with 24V / 12V jumper setting | | |
| | 1 x DC+12V out | | |
| | 2 x USB 3.0 + 6 x USB 2.0 | | |
| | 1 x DC +12V input | | |
| | 1 x audio (1 x line out) | | |
| | 1 x HDMI | | |
| | 1 x Type-C (data transfer only) | | |
| | 1 x VGA | | |
| Options | 1 x Wi-Fi 6E Intel AX210, IEEE 802.11 a/b/g/n/acR2/axR2, BT 5.2 | | |
| Power USB | N/A | N/A | 3 x 12V & 1 x 24V Powered USB |
| Display Support | 2 independent displays (HDMI + VGA) | | |
| Operating System | 1. Windows 11 IoT Enterprise GAC (64bit) 2. Windows 10 IoT Enterprise LTSC 21H2 (64bit) and newer version 3. Ubuntu 22.04 | | |
| TPM | Software TPM 2.0 (BIOS) | | |
| Power Adaptor | AC-In 100~240V / DC-Out 12V, 65W | | AC-In 100~240V / DC-Out 12V, 180W |
| Reliability | System operating temperature: 0~40°C / 32~104°F | | |
| | System humidity: 15% ~ 80% | | |
| | Storage temperature: -20~60°C / -4~140°F | | |
| Dimensions | 255 x 131.5 x 45.1 mm 10.04 x 5.18 x 1.78 in | 255 x 131.5 x 63.1 mm 10.04 x 5.18 x 2.48 in | |
| Weight | 1.5 kg / 3.3 lbs | 1.8 kg / 3.97 lbs | |

*Specification is subject to change without prior notice

Specifications



| Tiger Lake | | | |
|------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Item | ALFA MINI | ALFA | ALFA PRO |
| CPU | Intel® Core™ i3-1115G4 (Tiger Lake UP3) | | |
| | Intel® Core™ i5-1145G7, vPro (Tiger Lake UP3) | | |
| | Intel® Core™ i7-1185G7, vPro (Tiger Lake UP3) | | |
| Memory | DDR4 4GB, 8GB, 16GB, 32G | | |
| Storage | M.2 PCIe SSD: 128G / 256G / 512G / 1TB | | |
| I/O Interface | 3 x serial ports, RS-232 (DB9), 0V/5V/12V selected in BIOS (COM1, COM2, COM3) | | 4 x serial ports, RS-232 (DB9), 0V/5V/12V selected in BIOS (COM1, COM2, COM3, COM4) |
| | 1 x Intel LAN (IEEE 802.3 10/100/1000 Mbps Ethernet, RJ45) | | |
| | 1 x RJ11 port with support for 2 cash drawers with 24V / 12V jumper setting | | |
| | 1 x DC+12V out | | |
| | 4 x USB 3.2 + 4 x USB 2.0 | | |
| | 1 x DC +12V input | | |
| | 1 x audio (1 x line out) | | |
| | 1 x HDMI | | |
| | 1 x Type-C (data transfer + display) | | |
| | 1 x VGA | | |
| | Options | 1 x Wi-Fi 6E Intel AX210, IEEE 802.11 a/b/g/n/acR2/axR2, BT 5.2 | |
| Power USB | N/A | N/A | 3 x 12V & 1 x 24V Powered USB |
| Display Support | 3 independent displays (HDMI + Type-C + VGA) | | |
| Operating System | 1. Windows 11 IoT Enterprise GAC (64bit) | | |
| | 2. Windows 10 IoT Enterprise LTSC 21H2 (64bit) and newer version | | |
| | 3. Ubuntu 22.04 | | |
| TPM | Intel vPro (i5/i7 CPU only) | | |
| | Software TPM 2.0 (BIOS) | | |
| Power Adaptor | AC-In 100~240V / DC-Out 12V, 90W | | AC-In 100~240V / DC-Out 12V, 180W |
| Reliability | System operating temperature: 0~40°C / 32~104°F | | |
| | System humidity: 15% ~ 80% | | |
| | System Temperature: -20~60°C / -4~140°F | | |
| Dimensions | 255 x 132 x 45 mm | | 255 x 132 x 63 mm |
| | 10.04 x 5.18 x 1.78 in | | 10.04 x 5.18 x 2.48 in |
| Weight | 1.5 kg / 3.3 lbs | | 1.8 kg / 3.97 lbs |

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