

Alfa

ALFA Series

High Performance BOX PC



ALFA Mini



ALFA

ALFA Pro



ALFA Max

ALFA Max Pro



FEATURES

- Intel Elkhart Lake/ Tiger Lake/ CPU with fanless design (Alfa Mini/ Alfa/ Alfa Pro)
- Intel Alder Lake-S (Alfa Max/ Alfa Max Pro)
- High-speed M.2 PCIe SSD up to 1 TB (Alfa Mini/ Alfa/ Alfa Pro)
- RAID 1 up to 1TB (Alfa Max/ Alfa Max Pro)
- Rich I/O interface for connection of peripherals, signage and displays
- Support for USB 3.2 (USB 3.0 for Elkhart Lake)
- Available for Windows and Linux Ubuntu
- Powered USB option
- Easy VESA mounting option



Specifications



Item	ALFA Mini	ALFA	ALFA Pro
CPU	Intel® Celeron® J6412 (Elkhart Lake) 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 LAN(IEEE 802.3 10/100/1000 Mbps) 1 x Intel LAN(IEEE 802.3 10/100/1000 Mbps) for Tiger Lake 1 x RJ11 port support for 2 cash drawers with 24V / 12V jumper setting 1 x DC +12V out 2 x USB 3.2 + 6 x USB 2.0 4 x USB 3.2 + 4 x USB 2.0 for Tiger Lake 1 x DC +12V input 1 x audio (1 x line-out) 1 x HDMI 1 x Type-C (data transfer only) 1 x Type-C (data transfer+ display) for Tiger Lake 1 x VGA		
Wireless Option	Wi-Fi 6E Intel AX210, IEEE 802.11 a/b/g/n/acR2/axR2, BT 5.3		
Power USB	N/A		3 x 12V & 1 x 24V Powered USB
Display Support	2 Independent Displays (HDMI + VGA) 3 Independent Displays (HDMI + Type C + VGA) for Tiger Lake		
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 & vPro	Intel vPro (i5/i7 CPU only) S/W TPM 2.0 (BIOS)		
Power Adaptor	AC-In 100~240V / DC-Out 12V, 65W, 90W (Tiger Lake)		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 (Wx Hx D)	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 lb	1.8 kg / 3.97 lb	

*Specification is subject to change without prior notice

Specifications



Item	ALFA Max	ALFA Max Pro
CPU	(Alder Lake-S) Intel® Core™ i3-12100T, H610 Chipset Intel® Core™ i5-12500T, Q670 Chipset, vPro Intel® Core™ i7-12700T, Q670 Chipset, vPro	
Memory	DDR4 4GB, 8GB, 16GB , 32G	
Storage	2.5" SATA SSD: 128G / 256G / 512G / 1TB 2nd 2.5" SATA SSD (option)	
I/O Interface	2 x serial ports, RS-232 (DB9), 0V/5V/12V selected in BIOS (COM1, COM2) 2 x serial ports, RS-232 (RJ45), 0V/5V/12V selected in BIOS (COM3, COM4) 2 x LAN(IEEE 802.3 10/100/1000 Mbps) 1 x RJ11 port 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 mic in 1 x HDMI 1 x VGA	
Wireless Option	Wi-Fi 6E Intel AX210, IEEE 802.11 a/b/g/n/ac/ax2/axR2, BT 5.3	
Power USB	N/A	3 x 12V & 1 x 24V Powered USB
Display Support	3 independent displays (HDMI + VGA + 2nd VGA)	
Operating System	1. Windows 11 IoT Enterprise LTSC 24H2 (64bit) 2. Windows 10 IoT Enterprise LTSC 21H2 (64bit) 3. Linux Ubuntu 22.04	
TPM & vPro	1. Intel vPro (i5/i7 CPU only) 2. S/W TPM 2.0 (BIOS) 3. RAID (Q670 Chipset only)	
Power Adaptor	AC-In 100~240V / DC-Out 12V, 120W	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 (Wx Hx D)	255 x 185 x 81.1 mm / 10.04 x 7.28 x 3.19 in	
Weight	3.5 kg / 7.11 lb	

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