

Intel Core i7-1255U

Dieser kompakte Embedded Industrial Computer von Artessa IT basiert auf Intel Alder Lake Prozessoren der 12. Generation (i3/i5/i7) und bietet bis zu 64 GB DDR5-4800 Arbeitsspeicher, drei Intel Gigabit Ethernet-Ports (2x 2.5GbE, 1x 1GbE) sowie umfangreiche Erweiterungsmöglichkeiten durch drei M.2-Slots für WiFi, 4G/5G und NVMe-SSD. Mit erweiterten Betriebstemperaturen von -30°C bis +70°C, TPM 2.0-Sicherheit, DIN-Rail- und Wandmontage sowie Wide-Range DC-Eingang (9-36V) eignet sich das System ideal für industrielle Automatisierung, Edge Computing und IoT-Anwendungen in rauen Umgebungen.

Highlights

- Prozessor: Intel Core i3-1215U (Alder Lake, 6C/8T, 1.2 GHz base, 15W)
- DDR5 – erweiterbar bis 64 GB
- Speicher: 120 GB SSD, 250 GB SSD
- 3x 2.5GbE LAN
- 2x RS-232/422/485
- TPM 2.0 Verschlüsselung
- Weitbereichseingang 9-36V DC

Spezifikationen

System	
CPU-Generation	12th Gen Alder Lake
Kerne / Threads	10C / 12T
Basistakt	1.7 GHz
Turbotakt	4.7 GHz
TDP	15 W
Chipsatz	Integrated with Intel SoC
RAM-Typ	DDR5
RAM max.	64 GB
RAM-Slots	2
RAM-Frequenz	4800 MHz
Prozessor-Optionen	• Intel Core i3-1215U (Alder Lake, 6C/8T, 1.2 GHz base, 15W) • Intel Core i5-1235U (Alder Lake, 10C/12T, 1.3 GHz base, 15W) • Intel Core i7-1255U (Alder Lake, 10C/12T, 1.7 GHz base, 15W)
Speicher-Optionen	• 120 GB SSD • 250 GB SSD • 500 GB SSD • 2 TB SSD
Anschlüsse & I/O	
LAN-Ports	3
LAN-Geschwindigkeit	2.5GbE
USB	USB 3.2 Gen2 x4
COM-Ports	2x RS-232/422/485
Display-Ausgänge	HDMI x2
Bluetooth	true
Audio	Realtek ALC897

Stromversorgung	
Eingangsspannung	9-36V DC
Mechanik	
Abmessungen	185 x 116 x 50 mm
Gewicht	1.2 kg
Montage	DIN Rail, Wall Mount
Material	Aluminum Alloy Shell
Farbe	Grey / Silver / Black (optional)
Umgebung	
Betriebstemperatur	-30°C bis +70°C
Luftfeuchtigkeit	10% to 95% (non-condensing)
Vibrationsfestigkeit	1.5 Grms, IEC 60068-2-64, random, 5-500 Hz, 1 hr/axis
Zertifizierungen & Software	
Zertifizierungen	CE, FCC Class A, RoHS
OS-Unterstützung	Windows 10, Windows 11, Linux, Ubuntu
TPM	TPM 2.0

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This compact Embedded Industrial Computer from Artessa IT is based on 12th Gen Intel Alder Lake processors (i3/i5/i7) and offers up to 64 GB DDR5-4800 memory, three Intel Gigabit Ethernet ports (2x 2.5GbE, 1x 1GbE), and extensive expansion through three M.2 slots for WiFi, 4G/5G, and NVMe SSD. With extended operating temperatures from -30°C to +70°C, TPM 2.0 security, DIN rail and wall mounting options, and wide-range DC input (9-36V), this system is ideal for industrial automation, edge computing, and IoT applications in harsh environments.

Highlights

- Processor: Intel Core i3-1215U (Alder Lake, 6C/8T, 1.2 GHz base, 15W)
- DDR5 – expandable up to 64 GB
- Storage: 120 GB SSD, 250 GB SSD
- 3x 2.5GbE LAN
- 2x RS-232/422/485
- TPM 2.0 encryption
- Wide-range input 9-36V DC

Specifications

System	
CPU Generation	12th Gen Alder Lake
Cores / Threads	10C / 12T
Base Clock	1.7 GHz
Turbo Clock	4.7 GHz
TDP	15 W
Chipset	Integrated with Intel SoC
RAM Type	DDR5
RAM Max.	64 GB
RAM Slots	2
RAM Frequency	4800 MHz
Processor Options	• Intel Core i3-1215U (Alder Lake, 6C/8T, 1.2 GHz base, 15W) • Intel Core i5-1235U (Alder Lake, 10C/12T, 1.3 GHz base, 15W) • Intel Core i7-1255U (Alder Lake, 10C/12T, 1.7 GHz base, 15W)
Storage Options	• 120 GB SSD • 250 GB SSD • 500 GB SSD • 2 TB SSD
I/O & Connectivity	
LAN Ports	3
LAN Speed	2.5GbE
USB	USB 3.2 Gen2 x4
COM Ports	2x RS-232/422/485
Display Outputs	HDMI x2
Bluetooth	true
Audio	Realtek ALC897

Power	
Power Input	9-36V DC
Mechanical	
Dimensions	185 x 116 x 50 mm
Weight	1.2 kg
Mounting	DIN Rail, Wall Mount
Material	Aluminum Alloy Shell
Color	Grey / Silver / Black (optional)
Environment	
Operating Temperature	-30°C to +70°C
Humidity	10% to 95% (non-condensing)
Vibration Resistance	1.5 Grms, IEC 60068-2-64, random, 5-500 Hz, 1 hr/axis
Certifications & Software	
Certifications	CE, FCC Class A, RoHS
OS Support	Windows 10, Windows 11, Linux, Ubuntu
TPM	TPM 2.0