

Intel Core i7-1255U

Dieser kompakte Embedded-PC bietet Intel Alder Lake Prozessoren der 12. Generation (i3/i5/i7), bis zu 64 GB DDR5-Speicher und drei Gigabit-Ethernet-Schnittstellen (2x 2.5GbE + 1x 1GbE). Mit erweitertem Temperaturbereich (-30°C bis +70°C), flexiblen Montagemöglichkeiten (DIN-Rail/Wandmontage), M.2-Erweiterungsslots für WiFi/5G/SSD sowie breiter DC-Eingangsspannung (9-36V) eignet er sich ideal für anspruchsvolle industrielle IoT-, Edge-Computing- und Automatisierungsanwendungen.

Highlights

- Prozessor: Intel Core i3-1215U (12th Gen Alder Lake, 6C/8T, 1.2 GHz, 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
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 (12th Gen Alder Lake, 6C/8T, 1.2 GHz, 15W) • Intel Core i5-1235U (12th Gen Alder Lake, 10C/12T, 1.3 GHz, 15W) • Intel Core i7-1255U (12th Gen Alder Lake, 10C/12T, 1.7 GHz, 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	190 x 126 x 75 mm
Gewicht	1.6 kg
Montage	DIN-Rail, Wall Mount
Material	Aluminum Alloy Shell
Farbe	Grey / Silver / Black
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 PC features 12th Gen Intel Alder Lake processors (i3/i5/i7), up to 64 GB DDR5 memory, and three Gigabit Ethernet interfaces (2x 2.5GbE + 1x 1GbE). With extended operating temperature range (-30°C to +70°C), flexible mounting options (DIN-rail/wall mount), M.2 expansion slots for WiFi/5G/SSD, and wide DC input voltage (9-36V), it is ideally suited for demanding industrial IoT, edge computing, and automation applications.

Highlights

- Processor: Intel Core i3-1215U (12th Gen Alder Lake, 6C/8T, 1.2 GHz, 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
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 (12th Gen Alder Lake, 6C/8T, 1.2 GHz, 15W) • Intel Core i5-1235U (12th Gen Alder Lake, 10C/12T, 1.3 GHz, 15W) • Intel Core i7-1255U (12th Gen Alder Lake, 10C/12T, 1.7 GHz, 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	190 x 126 x 75 mm
Weight	1.6 kg
Mounting	DIN-Rail, Wall Mount
Material	Aluminum Alloy Shell
Color	Grey / Silver / Black
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