



IB2-281 – Pico-ITX Motherboard with Intel® Alder Lake-N Processor

The IB2-281 offers a wide range of connectivity options which include 2.5G LAN, USB 3.2 and GPIO. This tiny but powerful board is perfect for your embedded and industrial applications.

SPECIFICATIONS

CPU	Intel® N100 or N305 Processor
Memory Type	DDR5 SO-DIMM 4800MHz
Memory Slots	1
Maximum Memory Supported	16GB
Integrated Graphics	Intel® UHD Graphics
Audio	Realtek® ALC897 HD Audio
Video	1 x HDMI (Max. 3840 x 2160 @30 Hz), 1 x 30pin dual channel 24bit LVDS (Max. 1920 x 1200 @60 Hz)
LAN Port	1 x Intel® I226-V 2.5GbE LAN
Watchdog Timer	0~255 Second Time Out Support
Extended Interface	1 x M-Key M.2 (2242) PCIe3.0 X4 for SSD, 1 x E-Key M.2 (2230) for Wi-Fi/BT
Internal I/O	2 x USB2.0, 1 x RS232, 1 x TP_I2C, 4 x GPI, 4 x GPO, 2 x 5pin F_Audio, 1 x 6pin Inverter
Rear I/O	1 x 2.5GbE LAN, 2 x USB3.2 Gen1, 1 x HDMI, 1 x DC-In
Power Requirement	12V DC-IN
Dimensions	100 mm x 72 mm
Operating Temperature	0°C ~ 60°C (32°F ~ 140°F) @ 0.7m/s Air Flow

Relative Humidity

95% @ 60°C (Non-Condensing)

OS Software Supported

Windows 10 (64bit), Windows 11 (64bit), Linux Ubuntu (64bit)

Global P/N / SKU

2809187

Ordering Options

IB2-281-N100 (SKU# 2809187A): With Intel® N100 Processor IB2-281-N305 (SKU# 2809187B): With Intel® N305 Processor