



JF35-ADN1 – 3.5" SBC with Alder Lake-N SoC

This 3.5" form factor board is loaded with features including DDR5 memory support up to 32GB, M.2 NVMe, 2.5 Gigabit Ethernet, triple display support (2 x HDMI, 1 x LVDS) and optional 64GB of eMMC storage. This powerful board is a great solution for Panel PC, IOT, Edge Computing and other industrial applications.

SPECIFICATIONS

CPU	Intel® Alder Lake-N N97 SoC Processor (TDP 12W)
Memory Type	DDR5 4800MHz SO-DIMM
Memory Slots	1
Maximum Memory Supported	32GB
Integrated Graphics	Intel® UHD Graphics with shared memory
Audio	Realtek ALC897 (Default) / Realtek ALC888S
Video	2 x HDMI 2.0b, 1 x LVDS/eDP, 1 x DP 1.4a from external USB Type-C
LAN Ports	2 x Intel® i225-V 2.5GbE
Serial ATA (SATA)	1 x SATA III
Storage	64GB eMMC 5.1 onboard (JF35-ADN1-N97004/ JF35-ADN1-N97008 only)

GPIO Interface	1 x 8-bit GPIO Header
TPM	TPM2.0 (JF35-ADN1-N97002/ JF35-ADN1-N97008 only)
Watchdog Timer	256 segments (10sec ~ 255min)
Extended Interface	1 x M.2 M-key (2280, PCIe Gen.3 x2) supports NVMe, 1 x M.2 E-key (2230, USB2.0/PCIe Gen.3 x1) supports CNVi, 1 x M.2 B-key (3042/3052, USB3.1/USB2.0) supports 4G/5G Module
Rear I/O	2 x HDMI 2.0b, 1 x USB3.2 (Gen.2) Type-C supports DP1.4a, 1 x USB3.2 (Gen.2) Type-A, 4 x USB2.0, 2 x RJ45 2.5GbE LAN, 1 x Audio (Line-out/MIC), 1 x DC-in (12-28V)
Internal I/O	4 x USB2.0, 1 x LVDS/eDP, 1 x SATAIII, 5 x RS232, 1 x RS232/422/485, 1 x M.2 M-Key, 1 x M.2 E-Key, 1 x M.2 B-key, 1 x Nano SIM Slot, 1 x GPIO, 1 x Audio Front Header, 1 x Speaker, 1 x SMBUS
Power Requirement	12~28V DC Input
Operating Temperature	0 ~ 60-° C (32-° F ~ 140-° F)
Storage Temperature	-20 ~ 85° C
Relative Humidity	10 ~ 90% @ 40°C (non-condensing)
OS Software Supported	Windows 10 64-bit, Windows 11 64-bit, Linux
Global P/N / SKU	3308940

Ordering Options

JF35-ADN1-N97000 (SKU# 3308940A): 3.5" SBC with Intel® Alder Lake-N N97 SoC Processor (TDP 12W)
 JF35-ADN1-N97002 (SKU# 3308940B): 3.5" SBC with Intel® Alder Lake-N N97 SoC Processor (TDP 12W) with TPM 2.0
 JF35-ADN1-N97004 (SKU# 3308940C): 3.5" SBC with Intel® Alder Lake-N N97 SoC Processor (TDP 12W) with onboard 64GB eMMC
 JF35-ADN1-N97008 (SKU# 3308940D): 3.5" SBC with Intel® Alder Lake-N N97 SoC Processor (TDP 12W) with TPM 2.0 and onboard 64GB eMMC