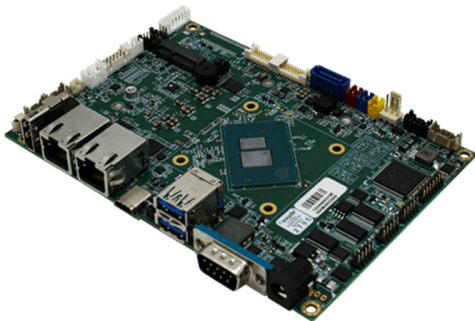


IAN32 Intel(R) N150 x86 Embedded Motherboard

Manufacturer part number: IAN32 | Embedded Board



Explore Winmate IAN32, an industrial embedded board featuring Intel(R) Processor N150, 3.5-inch form factor for OEM equipment design and embedded control.

System Specification	
Processor	Intel(R) Processor N150 6M Cache, up to 3.60 GHz
Memory	8GB (Default), 16GB (Optional)
Storage	128GB SSD (Default), 256GB SSD (Optional), 512GB SSD (Optional), 1TB (Optional), 2TB (Optional), 1 x SATA III for 2.5" SSD/HDD up to 2TB(Only available when NVME SSD is not present) (Optional)
Ethernet controller	2 x Intel(R) 2.5 Gigabit Ethernet Controller
Security	TPM 2.0
Operating System	Windows 11 IoT Enterprise (64 bit) (Optional), Windows 11 Pro 64 bit (Optional), Linux Ubuntu 24.04(Do not support Wake on Touch) (Optional)
IO Ports	
USB Port	2 x USB3.2 Gen2x1 (Type-A), 1 x USB 3.2 Gen 2x1 Type C connector,support DP Alt. mode
Serial Port	1 x RS232/422/485 (Default RS232)
LAN	2 x 2.5 Giga LAN RJ45 Connector
Video	1 x HDMI 2.0b, Max resolution up to, 4096x2160@60Hz (Optional)
Expansion Port	1 x M.2 2230 E-Key Slot (for Wi-Fi module), 1 x M.2 2230 E-Key Slot (for AI Acceleration Card, Only available when NVME SSD is not present)
Power Input	1 x 12V DC, 2.5? DC jack
Internal IO Ports	
Power input	1 x 2pin(1x2) for 12V DC in
Power output	1 x 2pin(1x2) blue wafer for 3.3V DC out, 1 x 2pin(1x2) red wafer for 5V DC out , 1 x 2pin(1x2) yellow wafer for 12V DC out
USB	2 x 8pin(2x4) for 4 x USB 2.0
Serial port	3 x 10pin(2x5) for RS232
Display	1 x 40pin DF13 connector for LVDS (Default), 1 x 30pin DF13 connector for eDP 1.4a, Max resolution up to 4096x2304@60Hz(1 lane) (Optional)
Backlight	1 x 7pin(1x7) for panel backlight
SATA	1 x SATA III(Only available when NVME SSD is not present), 1 x 8pin(2x4) for SATA power
DIDO	1 x 14pin(2x7) for Digital input/output

VR	1 x 3pin(1x3) for Digital panel backlight brightness control, 1 x 3pin(1x3) VR/Software brightness switch jumper, 1 x 3pin(1x3) PWM/DC brightness switch jumper, 1 x 3pin(1x3) 3.3V/5V PWM Level switch jumper
Fan	1 x 3pin(1x3) for CPU Fan
OSD	1 x 10pin(2x5) for OSD control
Speaker	2 x 2pin(1x2) for Speaker
Backup battery	1 x 2pin(1x2) for RTC battery
Audio	1 x 12pin(2x6) for Line in/Line out/ Mic in
Certification	
Certification	CE, FCC
Mechanical	
Dimension	146 x 102 mm
Environment	
Operating Humidity	10% to 95% RH, Non-Condensing
Operating Temperature	0 deg C to 60 deg C
Storage Temperature	-40 deg C to 70 deg C
Accessory	
Accessory	1 x Installation Guide
Optional Accessory	1 x SATA cable (94H007Z070K0) (Optional), 1 x SATA Power cable (94HE08Z150E0) (Optional), 1 x COM cable (94G309E100E1) (Optional), 1 x 2-Port USB 2.0 Type A cable (94E808E080K0) (Optional), 1 x 12V 84W Adapter (922D084W12V1) (Optional), 1 x Power cord (Varies by country) (Optional), 1 x CPU Heatspreader (98K000A000N2) (Optional), 1 x Membrane (98K000A000N1) (Optional), 2 x Speaker (612620000007) (Optional)
Power	
Power Rating	12V DC