

IAD32-MXM Intel(R) Core(TM) i5 x86 Embedded Motherboard

Manufacturer part number: IAD32-MXM | Embedded Board



Explore Winmate IAD32-MXM, an industrial embedded board featuring Intel(R) Core(TM) i5, 3.5-inch display with 183x146 resolution for OEM equipment design and...

System Specification	
Processor	Intel(R) Core(TM) i5-1235U 3.3GHz(up to 4.40 GHz)
Memory	1 x SO-DIMM, DDR5 4800 MHz, 8GB (Default), 16GB (Optional), 32GB (Optional)
Storage	1 x M.2 2280 M-Key NVMe SSD 256GB (Default), 512GB (Optional), 1TB (Optional), 2TB (Optional), 1 x SATA III for 2.5" SSD/HDD up to 2TB (Optional)
Ethernet controller	2 x Intel(R) Ethernet Controller
Security	TPM 2.0
Operating System	Windows 11 IoT Enterprise (64 bit) (Optional), Windows 11 Pro 64 bit (Optional), Linux Ubuntu 22.04(Do not support Wake on Touch) (Optional)
WLAN	Support (Optional)
BT	Support (Optional)
Graphic Card	MXM Ampere RTX A500 (Optional), MXM Ampere RTX A1000 (Optional), MXM Ampere RTX A2000 (Optional), MXM Ada RTX 2000A (Optional)
IO Ports	
USB Port	2 x USB3.2 Gen2x1 (Type-A)
Serial Port	1 x RS232/422/485 (Default RS232)
LAN	2 x 2.5 Giga LAN RJ45 Connector
Video	1 x HDMI 2.0 (Optional)
Expansion Port	1 x M.2 2230 E-Key Slot (for Wi-Fi module), 1 x M.2 2230 E-Key Slot (for MXM GPU card)
Power Input	1 x 12V DC, 2.5? DC jack
Internal IO Ports	
Power input	1 x 6pin(1x6) 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 (Optional)
Backlight	1 x 7pin(1x7) for panel backlight

SATA	1 x SATA III, 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 188 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 (Default), 3 x Power cable for daughter board(94EE02E020E1) (Optional)
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 120W Adapter (922D120W12V5) (Optional), 1 x Power cord (Varies by country) (Optional), 1 x CPU Heatspreader (98K000A000N3) (Optional), 1 x Membrane (98K000A000N1) (Optional), 2 x Speaker (612620000007) (Optional)
Power	
Power Rating	12V DC