

IW32 Intel(R) Core(TM) i5-8265U x86 Embedded Motherboard

Manufacturer part number: IW32 | Embedded Board



Explore Winmate IW32, an industrial embedded board featuring Intel(R) Core(TM) i5-8265U, 3.5-inch form factor for OEM equipment design and embedded control.

System Specification	
Processor	Intel Core i5 -8265U 1.6GHz (up to 3.9GHz)
Memory	4GB(Default), 8GB (Optional), 16GB (Optional), 32GB (Optional)
Storage	128GB SSD(Default), 256GB SSD (Optional), 512GB SSD (Optional), 1TB (Optional)
Ethernet controller	2 x Intel(R) Ethernet Controller
Security	TPM 2.0
Operating System	Windows 10 IoT Enterprise (64 bit) (Optional), Linux Ubuntu 20.04 (Optional)
WLAN	Support (Optional)
BT	Support (Optional)
IO Ports	
USB Port	2 x USB3.2 Gen1x1 (Type-A)
Serial Port	1 x RS232/422/485 (Default RS232)
LAN	2 x Giga LAN RJ45 Connector
Video	1 x HDMI 1.4 (Optional)
Expansion Port	1 x M.2 2280/2242 M-Key Slot (for NVME SSD or SATA III SSD), 1 x M.2 2230 E-KeySlot (for Wi-Fi Module)
Power Input	1 x 12V DC, 2.5? DC jack
Internal IO Ports	
Power input	1 x 2pin(1x2) for 12V DC in, 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 (Optional)
Backlight	1 x 7pin(1x7) for panel backlight
SATA	2 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 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 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 in