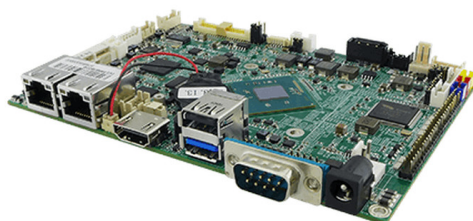


IB32 Intel(R) Celeron(R) N2930 x86 Embedded Motherboard

Manufacturer part number: IB32 | Embedded Board



Explore Winmate IB32, an industrial embedded board featuring Intel(R) Celeron(R) N2930, 3.5-inch form factor for OEM equipment design and embedded control.

System Specification	
Processor	Intel Celeron N2930 1.83GHz (up to 2.16GHz)
Memory	4GB(Default), 8GB (Optional)
Storage	128GB SSD(Default), 256GB SSD (Optional), 512GB SSD (Optional)
Ethernet controller	2 x Intel(R) Ethernet Controller
Operating System	Windows 10 IoT Enterprise (64 bit) (Optional), Linux Ubuntu 20.04 (Optional)
WLAN	Support (Optional)
BT	Support (Optional)
IO Ports	
USB Port	1 x USB3.2 Gen1x1 (Type-A), 1 x USB2.0 (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 mPCIe slot(for SSD), 1 x mPCIe slot(for Wi-Fi module)
mini PCIe	1 x Mini PCIe
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 10pin(2x5) for VGA (Optional)
Backlight	1 x 7pin(1x7) for panel backlight
SATA	1 x SATA II, 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 5pin(1x5) VRD debug port
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
BIOS debug	1 x 10pin(2x5) for LPC debug
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 in