

IB32S Intel(R) Celeron(R) N2930 x86, 3.5" Single Board Computer

Manufacturer part number: IB32S | Embedded Board



Explore Winmate IB32S, 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, One with PoE(PD, 802.3at)(Optional)
Video	1 x VGA (Optional)
Expansion Port	1 x M.2 2242 B-key Slot (for SATA II SSD), 1 x M.2 2230 E-Key Slot (for Wi-Fi module)
Power Input	1 x 12V DC, 3-Pin Terminal Block
Internal IO Ports	
Power input	1 x 3pin Terminal Block
Power output	1 x 2pin(1x2) red wafer for 5V DC out
USB	1 x 8pin(2x4) for 2 x USB 2.0, 1 x 4pin(1x4) for 1 x USB 2.0, 1 x FPC connector(CN8) for touch screen
UART	1 x 6pin(1x6) for UART
Display	1 x 40pin DF13 connector Co-lay for LVDS and eDP (Default), 2 x 40pin FPC connector Co-lay for LVDS(CON3, CON4) (Optional), 1 x 10pin FFC connector for VGA (Optional)
Backlight	1 x 7pin(1x7) for panel backlight
DIDO	1 x 14pin(2x7) for Digital input/output
VR	1 x 5pin(1x5) MCU debug port
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 4pin(1x4) for Digital Mic
BIOS debug	1 x 20pin(2x10) 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
POE	PoE (PD): follows IEEE 802.3at (25 W)