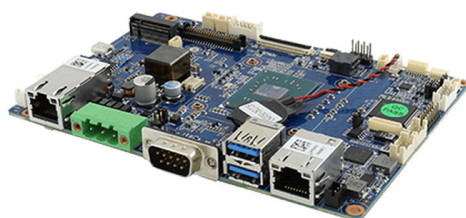


IP32S x86 SBC, Intel(R) Pentium(R) N4200 Single Board Computer

Manufacturer part number: IP32S | Embedded Board



Explore Winmate IP32S, an industrial embedded board featuring Intel(R) Pentium(R) N4200, 3.5-inch form factor for OEM equipment design and embedded control.

System Specification	
Processor	Intel Pentium N4200 1.1GHz (up to 2.5GHz)
Memory	4GB(Default), 8GB (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 2.5 Giga LAN RJ45 Connector,one with PoE(PD, 802.3 at)(Optional)
Video	1 x Micro HDMI (Optional)
Expansion Port	1 x M.2 2242 B-Key Slot (for SATA III 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	2 x 8pin(2x4) for 4 x USB 2.0, 1 x FPC connector(CN8) for touch screen
UART	1 x 6pin(1x6) for UART
Serial port	1 x 10pin(2x5) for RS232
Display	1 x 40pin DF13 connector for LVDS.Co-lay for eDP (Default), 1 x 40pin FPC connector Co-lay for LVDS(CON3) (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 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 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
POE	PoE (PD): follows IEEE 802.3at (25 W)