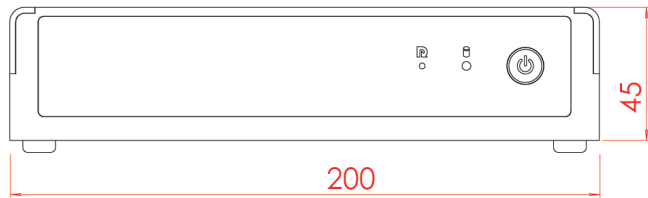




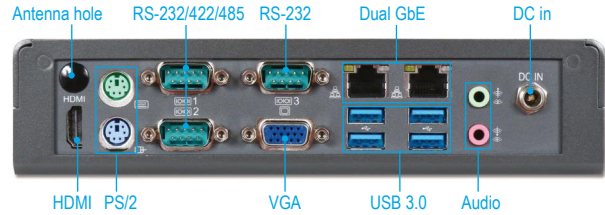
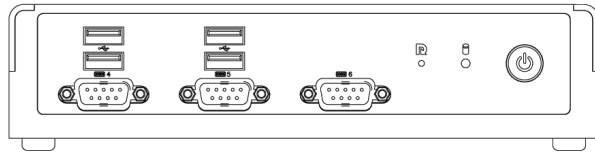
# RICH-33B0-8171

Fanless Embedded System with Intel® Celeron® Processor N3160

RICH-33B0-8171-S



RICH-33B0-8171-F



RICH-33B0-8171 features Intel® Celeron® processor N3160, dual-channel DDR3L memory, dual Gigabit Ethernet, 1x mSATA, and 1x Mini PCIe socket. With rich I/O and powerful graphics, RICH-33B0-8171 is an ideal platform for automation, POS, kiosk, and digital signage applications.

## FEATURES

- Intel® Celeron® processor N3160
- DDR3L 1600/1333 MHz memory, 2x 204-pin SODIMM sockets, up to 8GB
- 1x 2.5" SATA HDD/SSD, 1x mSATA
- 1x full/half-size Mini PCIe socket
- Up to 6 COM ports, 8 USB (4x USB 3.0 + 4x USB 2.0)

## ORDERING GUIDE

RICH-33B0-8171-S	RICH-33B0-8171 with Intel® Celeron® processor N3160, 4GB RAM, 32 GB mSATA, 3x COM, 4x USB 3.0, and 40W power adaptor
RICH-33B0-8171-F	RICH-33B0-8171 with Intel® Celeron® processor N3160, 4GB RAM, 32 GB mSATA, 6x COM, 4x USB 3.0, 4x USB 2.0, and 40W power adaptor

## OPTIONAL ITEMS

B7245830	Wall mount kit
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## System

Motherboard	WADE-8171 Mini-ITX industrial motherboard
CPU	Intel® Celeron® processor N3160 in FCBGA1170 package, 1.6 GHz (2.24 GHz turbo), 2 MB, 6W TDP (4C/4T)
Chipset	Integrated
BIOS	AMI UEFI BIOS (SPI ROM)
System Memory	DDR3L 1600/1333 MHz memory (non-ECC) 2x 204-pin SODIMM sockets (4 GB included, max 8 GB)
Storage	1x 2.5" SATA III SSD/HDD (internal) 32GB mSATA (internal)
Watchdog Timer	Programmable 1 to 255 minutes/seconds interval
H/W Status Monitor	CPU & system temperature Onboard voltages (CPU Vcore, 12V, 5V, 3.3V, RAM)
Expansion	1x full/half-size Mini PCIe socket (USB + PCIe x1 signal)

## External I/O

Serial Port	RICH-33B0-8171-S: 2x RS-232/422/485 (BIOS selectable) + 1x RS-232 RICH-33B0-8171-F: 2x RS-232/422/485 (BIOS selectable) + 4x RS-232
Display	1x VGA, resolution up to 1920 x 1200 @ 60Hz 1x HDMI, resolution up to 1920 x 1200 @ 60Hz
USB	RICH-33B0-8171-S: 4x USB 3.0 RICH-33B0-8171-F: 4x USB 3.0 + 4x USB 2.0
Audio	Intel® High Definition Audio interface Realtek® ALC887 High Definition Audio 1x jumbo jack (Line-out/Mic-in)
Ethernet	2x Gigabit Ethernet (Realtek® RTL8111G) 2x RJ45 connectors with LED
Other	1x reserved cutout for wireless antenna TPM 1.2 module (by project) on LPC pin header

## Power Supply Unit

Power Input	12V DC-in
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## Environmental

Operating Temperature	0°C to 50°C
Storage Temperature	-40°C to 85°C
Relative Humidity	5~95%, non-condensing
Shock and Vibration	IEC 60068-2-64, 5Grms, 5-500Hz IEC 60068-2-27, 50G, 11 ms

## Mechanical

Dimension	200 x 200 x 45 mm (7.9" x 7.9" x 1.8")
Weight	2.0 kg (4.4 lbs)
Mounting	Wall (optional kit required)

