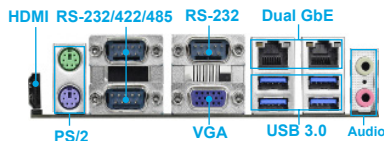


WADE-8171 is based on Intel® Celeron® processor N3160. With dual-channel DDR3L memory and rich I/O sets, WADE-8171 empowers energy-efficient solutions for point-of-sale (POS) and industrial automation applications.

## FEATURES

- Intel® Celeron® processor N3160
- DDR3L 1600/1333 MHz memory, 2x 204-pin SODIMM sockets, up to 8GB
- Triple independent display by VGA, DisplayPort, and dual-channel LVDS
- 1x PCIe x1, 1x Mini PCIe, 2x SATA III ports, and 1x mSATA (shared)
- 8 USB ports (4x USB 3.0 + 4x USB 2.0)

## REAR I/O



## ORDERING GUIDE

WADE-8171	WADE-8171 with Intel® Celeron® processor N3160
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## OPTIONAL ITEMS

B6903530	COM port cable
B786L800	USB cable

## PACKING LIST

1x WADE-8171 motherboard
1x I/O shield
1x SATA cable
1x driver CD



All product specifications are subject to change without notice.

Last updated: Jun 20, 2017

## General

Processor	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)
Memory	DDR3L 1600/1333 MHz memory (non-ECC) 2x 204-pin SODIMM socket, up to 8 GB
Storage Devices	2x SATA III ports 1x mSATA (shared with SATA III)
Watchdog Timer	Programmable 1 to 255 minutes/seconds interval
Hardware Monitoring	CPU & system temperature Onboard voltages (CPU Vcore, 12V, 5V, 3.3V, RAM)
Expansion Interface	1x PCIe x1 (Gen2) 1x full/half-size Mini PCIe socket (USB + PCIe x1 signal)

## I/O Interface

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 on rear I/O
Serial Port	2x RS-232/422/485 on rear I/O (selectable by BIOS) 1x RS-232 on rear I/O 3x RS-232 on pin header (2.00 mm pitch)
USB	4x USB 3.0 on rear I/O 4x USB 2.0 on pin header (2.54mm pitch)
Keyboard & Mouse	2x PS/2 keyboard & mouse on rear I/O
GPIO	8x GPI + 8x GPO
Other	TPM 1.2 module (by project) on LPC pin header

## Display

Graphic Controller	Integrated Intel® Generation 8 Graphics Supports DirectX 11.1, OpenGL 4.2, OpenCL 1.2
Display Interface	1x VGA on rear I/O, resolution up to 1920 x 1200 @ 60Hz 1x HDMI on rear I/O, resolution up to 1920 x 1200 @ 60Hz 1x dual-channel 24-bit LVDS connector, resolution up to 1920 x 1200 @ 60Hz

## Mechanical & Environmental

Dimension	170.0 x 170.0 x 34.0 mm (6.7" x 6.7" x 1.3")
Power Supply	12V (+/-5%) or 19V-24V (+/-5%)
Environmental	Operating temperature: 0°C to 60°C Storage temperature: -20°C to 80°C Relative humidity: 5~95%, non-condensing