



ECM-BSWA

Intel® Pentium®/Celeron® SoC Processor 3.5"
Micro Module

- > Onboard Intel® Pentium®/Celeron® SoC BGA Processor
- > One 204-pin DDR3L SODIMM Socket Supports Up to 8GB DDR3L 1600 SDRAM
- > Triple Display (HDMI, LVDS, LVDS)
- > 1 SATA III, 4 USB 3.0, 2 USB 2.0, 6 COM, 2 x Mini-PCle, 8-bit GPIO
- > Fanless
- > TPM 1.2 function (Optional)

+ Spec

System Information	
Processor	Intel® Pentium®/Celeron® processor
System Memory	1 x 204-Pin DDR3L 1600MHz SO-DIMM up to 8 GB
I/O Chipset	ITE_IT8528VG/FX
BIOS Information	AMI uEFI BIOS, 64 Mbit SPI Flash ROM
Watchdog Timer	H/W Reset: 1sec. ~ 65535sec./min. and 1sec. or 1min./step
H/W Status Monitor	Monitoring System Temperature and Voltage with Auto Throttling Control
Expansion	
Expansion	2 x Mini PCIe (1 x Full-size Mini PCIe on solder side & with mSATA Supported, 1 x Half-size Mini PCIe)
Storage	
Storage	1 x mSATA Supported from Mini PCIe
Touch Screen	
Built-in Touch controller (optional)	EETIETP-CP-MER4485XRU With 5-pin 2.0mm Box Header (Can be Selected to Support 5Wire Touch Screen)
I/O	
USB Port	2 x USB 2.0, 4 x USB 3.0
COM Port	1 x RS-232/422/485, 5 x RS-232
SATA	1 x SATA III
DIO	8bit GPIO
MIO	1 x LPC, 1 x SPI
Display	
Graphic Chipset	Intel® Braswell SoC integrated Graphics Supports Triple display
Spec. & Resolution	HDMI: Max. resolution 1920x1080 @ 60Hz LVDS: Max. resolution 1920x1080 @ 60Hz LVDS + HDMI+ VGA (by pin header) Dual-channel 18/ 24-bit LVDS
Audio	
Audio Codec	Realtek ALC888S HD codec Supports 5.1-CH Audio
Certifications	
Certification Information	CE, FCC Class B
Ethernet	
LAN Chipset	2 x Intel I211AT
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	2 x RJ-45
Mechanical & Environmental	
Operating Temperature	0°C ~ 60°C (32°F ~ 140°F)
Storage Temperature	-40°C ~ 75°C (-40°F ~ 185°F)
Weight	0.44lbs (0.2kg)
Power Requirement	+12V ~ +26V
ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
Power Mode	AT/ATX
Dimension (L x W)	5.7" x 4" (146mm x 101mm)
Software Support	
OS Information	Win 10, Win 7, Linux
Ordering Information	



Ordering Information

ECM-BSWA-N3160-B1R
3.5" W/N3160/1SATA/6COM/B1