



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	
Processor	Intel® Pentium®/Celeron® processor
System Memory	1 x 204-Pin DDR3L 1600MHz SO-DIMM up to 8 GB
I/O Chip	ITE_IT8528V/G/FX
BIOS	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	2 x USB 2.0, 4 x USB 3.0
SATA	1 x SATA III
COM Port	1 x RS-232/422/485, 5 x RS-232
DIO	8bit GPIO
MIO	1 x LPC, 1 x SPI
Display	
Chipset	Intel® Braswell SoC integrated Graphics Supports Triple display
Resolution	HDMI: Max. resolution 1920x1080 @ 60Hz LVDS: Max. resolution 1920x1080 @ 60Hz LVDS + HDMI+ VGA(by pin header) Dual-channel 18/ 24-bit LVDS
Audio	
Chipset	Realtek ALC892 HD codec Supports 5.1-CH Audio
Ethernet	
Chipset	2 x Intel I211AT
Ethernet Interface	10/100/1000 Base-Tx GbE compatible
LAN Port	2 x RJ-45
Mechanical & Environmental	
Power Requirement	+12V ~ +26V
ACPI	Single Power ATX Support S0, S3, S4, S5 ACPI 5.0 Compliant
Power Type	AT/ATX
Operating Temp	0°C ~ 60°C (32°F ~ 140°F)
Storage Temp	-40°C ~ 75°C (-40°F ~ 185°F)
Dimension (L x W)	5.7" x 4" (146mm x 101mm)
Weight	0.44lbs (0.2kg)
Certifications	
Certification Information	CE, FCC Class B
Software Support	
OS Information	Win 10, Win 7, Linux



 Ordering

ECM-BSWA-N3160-A1R
3.5" W/N3160/1SATA/6COM/A1

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