

# CE-6BT01

Intel® Atom Processor E3800 Series /  
Intel Celeron J1900 COM Express  
Type 6 Module



**COM Express®**



## System

CPU	Intel Atom Processor E3845 (1.91GHz/4C/10W) Intel Atom Processor E3827 (1.75GHz/2C/8W) Intel Atom Processor E3815 (1.46GHz/1C/5W) Intel Celeron Processor J1900 (2.0GHz/4C/10W)
System Memory	2 x 204-pin DDR3L SODIMM sockets Non-ECC/unbuffered Data transfer rates up to 1333MT/s Memory size up to 8GB
BIOS	AMI uEFI 8MB SPI flash
Graphics	Intel 7th generation graphics and media encode/decode engine
Audio	Bay Trail SOC integrated HD audio codec interface
Watchdog Timer	H/W Reset, 0 – 255 steps, Step = 1 sec. or 1 min
H/W Monitor	H/W monitor IC onboard. Voltage monitoring: CPU core power, CPU I/O power, DDR power
TPM	TPM1.2 supported

## Mechanical & Environmental

Specification	PICMG COM.0: Revision 2.1 Type 6
Dimension	Compact size: 95mm x 95mm
Power Management	ACPI 5.0 compliant
Power Input	AT = +5V ~ +19V ATX = +5V ~ +19V / +5Vsb
Temperature	CE-6BT01: 0°C ~ 60°C CE-6BT01r: -20°C ~ 70°C CE-6BT01e: -40°C ~ 85°C
Operating Humidity	10% ~ 90% relative humidity, non-condensing

## Ordering Information

Model Number	Description
CE-6BT01-J1900-eMMC32	COM Express , Compact size, Type 6, w/ Intel Celeron Processor J1900, 2xDDR3L SO-DIMM, LVDS, GbE, 4xUSB3.0, 2xPCIex1, 2xSATA, 32G eMMC
CE-6BT01-J1900-eMMC16	w/ Intel Celeron Processor J1900, 2xDDR3L SO-DIMM, 4xUSB3.0, 2xPCIex1, 16G eMMC
CE-6BT01-J1900	w/ Intel Celeron Processor J1900, 2xDDR3L SO-DIMM, 4xUSB3.0, 2xPCIex1
CE-6BT01r-E3845-eMMC32	w/ Intel Atom Processor E3845, 2xDDR3L SO-DIMM, 4xUSB3.0, 2xPCIex1, 32G eMMC
CE-6BT01r-E3845-eMMC16	w/ Intel Atom Processor E3845, 2xDDR3L SO-DIMM, 4xUSB3.0, 2xPCIex1, 16G eMMC
CE-6BT01r-E3815-eMMC16	w/ Intel Atom Processor E3815, 1xDDR3L SO-DIMM, 4xUSB3.0, 2xPCIex1, 16G eMMC,
CE-6BT01r-E3815	w/ Intel Atom Processor E3815, 1xDDR3L SO-DIMM, 4xUSB3.0, 2xPCIex1
CE-6BT01r-E3827	w/ Intel Atom Processor E3827, 2xDDR3L SO-DIMM, 1xUSB3.0, 3xPCIex1
CE-6BT01e-E3845-eMMC32	w/ Intel Atom Processor E3845, 2xDDR3L SO-DIMM, 4xUSB3.0, 2xPCIex1, 32G eMMC

## I/O

COM Express Type 6 connector	1 x 2-ch 24-bit LVDS
ROW A & B	1 x VGA 2 x SATA II ports 8 x USB2.0 ports 1 x HD audio interface 1 x LPC interface 1 x GbE 2 x PCIex1 ports 2 x UART ports 1 x SMBus 1 x SPI interface 1 x I2C interface 1 x 4-bit GPI 1 x 4-bit GPO 2 x Fan control signals 1 x Reset signal 1 x Power-on button signal 1 x Watchdog Timer
COM Express Type 6 connector	1 x DDI port 4 x USB3.0 ports
ROW C & D	

## Optional Accessories

6-BT601S102	C&T COM Express Type 6 carrier board
3-HSK-6BT01	Heat sink for CE-6BT01, Dimension: 95mm x 95mm x 23.8mm

Board Level  
COM Express

Board Level  
3.5" SBC

Board Level  
Industrial M/B

Robust System

Intelligent System