



Features:

- 1 to 2 DDR3L SODIMM up to 4 to 8GB
- Two independent displays: VGA + DVI-I
- DVI-I resolution up to 1920x1080 @ 60Hz
- Slot expansion: 1 PCIe x4 (x1 signal)
- Rich I/O: 2 Intel GbE, 6 COM, 1 USB 3.0, 7 USB 2.0
- Wide temperature range
- Small form factor
- mSATA



DDR3L



2 Displays



mSATA



USB 3.0



Wide Temperature



USB Drive Security

Product available until Q4 2020

PROCESSOR

Intel® Atom™/Intel® Celeron® processors
BGA 1170 packaging technology
22nm process technology
Please refer to the Ordering Information below

BIOS

AMI BIOS
- 64Mbit SPI BIOS

I/O CONNECTORS

2 connectors for 3 external USB 2.0 ports; or
1 connector for 2 external USB 2.0 ports and 1 vertical USB 2.0/1.1 port*
4 connectors for 4 external serial ports (2.0mm pitch)
- 1 RS232/422/485 (RS232 and/or power)
- 3 RS232
1 LVDS LCD panel connector
1 LCD/inverter power connector
1 8-bit DIO and/or power connector
1 front audio connector for line-out and mic-in jacks
1 S/PDIF connector
1 PS/2 connector for keyboard/mouse port
1 LPC connector
1 SMBus connector*
1 LAN LED connector
2 Serial ATA connectors
1 24-pin ATX power connector
1 front panel connector
1 chassis intrusion connector
1 fan connector

REAR PANEL I/O PORTS

2 DB-9 serial ports
- 1 RS232/422/485 (RS232 and/or power)
- 1 RS232
1 DVI-I port (DVI-D signal)
1 VGA port
2 RJ45 LAN ports
3 USB 2.0 ports
1 USB 3.0 port
Mic-in, Line-out jacks (default) or Mic-in, Line-in, Line-out jacks*

ENERGY EFFICIENT DESIGN

Supports ErP Lot6 power saving*
Supports ACPI
System Power Management
Wake-On-Events include:
- Wake-On-USB/PS/2 KB/Mouse*
- Wake-On-LAN
- RTC timer to power-on the system
AC power failure recovery

DAMAGE FREE INTELLIGENCE

Monitors CPU/system temperature and overheat alarm
Monitors V CORE/12V/5V/DDR/VS/3 voltages and failure alarm
Monitors CPU fan speed and failure alarm
Read back capability that displays temperature, voltage and fan speed
POWER CONSUMPTION
BT100-TC-E45: 12.18W with E3845 at 1.91GHz and 2x 4GB DDR3L SODIMM

WATCHDOG TIMER

Watchdog timeout programmable via software from 1 to 255 seconds

CERTIFICATION

CE, FCC Class B, RoHS

ORDERING INFORMATION

Model Name	Processor	Memory	RS232	RS232/422/485	Power	Thermal	Temperature
MBU4101-BC-E15	Intel® Atom™ E3815, Single Core, 0.5M Cache, 1.46GHz, 5W	1 SODIMM	4	2	24-pin ATX	Fanless	0°C to 60°C
MBU4101-BC-J00	Intel® Celeron® J1900, Quad Core, 2M Cache, 2GHz (2.42GHz), 10W	2 SODIMM	4	2	24-pin ATX	Fanless	0°C to 60°C
MBU4101-ED-E45	Intel® Atom™ E3845, Quad Core, 2M Cache, 1.91GHz, 10W	2 SODIMM	1	1	24-pin ATX	Fanless	-20°C to 70°C
MBU4101-TC-E45	Intel® Atom™ E3845, Quad Core, 2M Cache, 1.91GHz, 10W	2 SODIMM	4	2	24-pin ATX	Fanless	-40°C to 85°C

The following specifications will be available upon request. Please contact your sales representative for more information.

Model Name	Temperature	Features	Processors
MBU4101	E B: 0°C to 60°C E: -20°C to 70°C T: -40°C to 85°C	D: 2 LAN, 2 COM C: 2 LAN, 6 COM	E45 E45: Intel® Atom™ E3845, Quad Core, 2M Cache, 1.91GHz, 10W E15: Intel® Atom™ E3815, Single Core, 0.5M Cache, 1.46GHz, 5W J00: Intel® Celeron® J1900, Quad Core, 2M Cache, 2GHz (2.42GHz), 10W

Industrial Computers Ltd.
Units 3, 4 & 5 New Bury Park
Marsh Lane
Easthampnett
West Sussex, PO18 0JW

Tel: +44 (0) 1243 380780
Fax: +44 (0) 1243 538035
eMail: sales@industrial-computers.com
Web: www.industrial-computers.com
Reg No: 5578804

