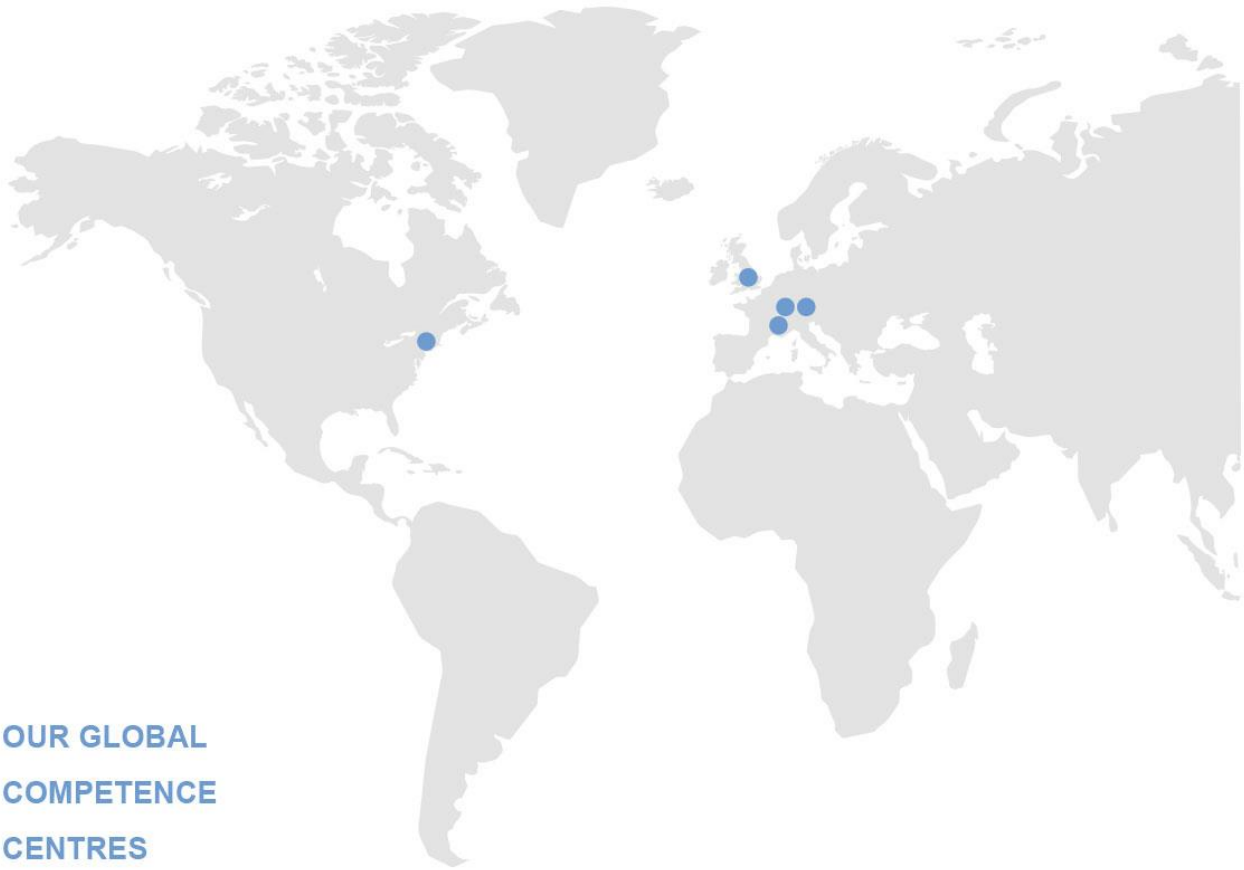
FORTEC
ELEKTRONIK AG



OUR GLOBAL COMPETENCE CENTRES

APOLLO DISPLAY TECHNOLOGIES

DISTEC

DISPLAY TECHNOLOGY

FORTEC
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Datasheet

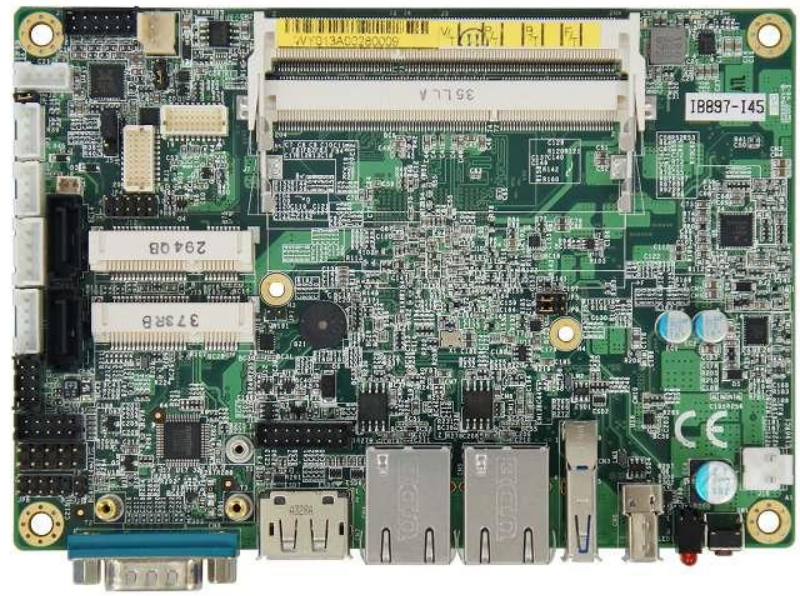
iBASE

IB897

3,5” Single-Board Computer with Intel® BayTrail

Atom™ E3845, E3827 or E3815 Processor,

1x LVDS, 1x DisplayPort, COMs, up to -40°..+85°C



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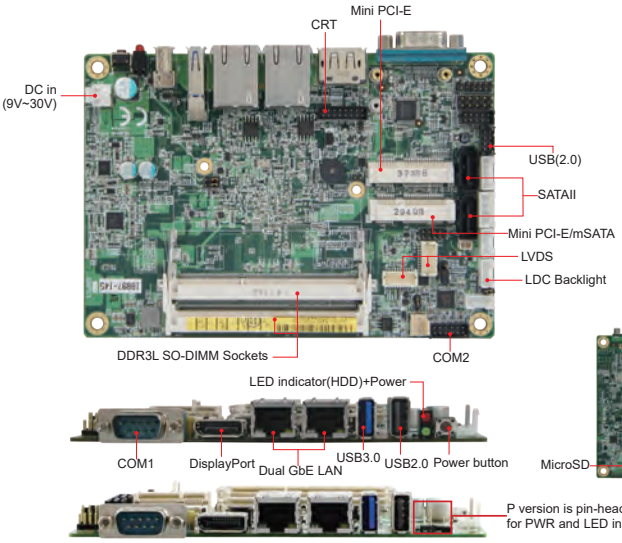
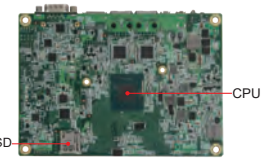
IB897

3.5" Disk-Size SBC

Intel® Atom™ Processor E3800 Series 3.5-inch Disk-Size SBC





Features

- Onboard Intel® Atom™ E3845/E3827/E3815 SoC, 1.91GHz/1.75GHz/1.46GHz
- 2x DDR3L-1333 SO-DIMM, Max. 8GB
- Supports VGA, DisplayPort and 24-bit dual-channel LVDS
- 2x Intel® I210IT PCI-E Gigabit LAN
- Watchdog timer, Digital I/O, mSATA, iSMART
- 3x USB 2.0, 1x USB 3.0, 2x COM, 2x SATA II, 1x MicroSD slot
- 2x Mini PCI-E slots (1x full-size, 1x half-size)
- Wide-range operating temperature

IB897 with Heat spreader

IB897 with Heatsink

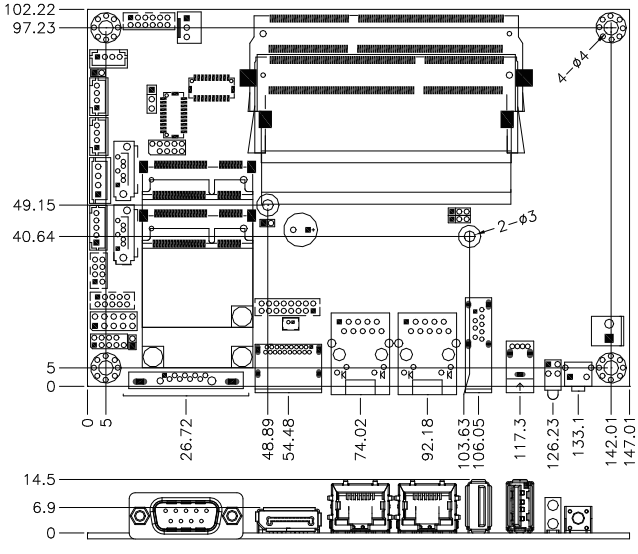
Specifications

CPU	Intel® Atom™ QC E3845 (1.91GHz, 2MB cache) Intel® Atom™ DC E3827 (1.75GHz, 1MB cache) 2nd Atom™ SC E3815 (1.46GHz, 512k cache)
PCH	Integrated in Intel® Atom™ SoC
Memory Types	2x DDR3L-1333 SO-DIMM, Max 8GB (Non-ECC) 1x DDR3L-1333 SO-DIMM, (IB897-215 only)
BIOS	AMI
Watchdog Timer	256 levels
H/W Monitor	Yes
Storage Device Interface	1x mSATA, 1x MicroSD
Mini Type Slots	2x Mini PCI-E (1x full-size, 1x half-size)
Graphics Controller	Intel® Atom™ SoC integrated Gen7 4EUs graphics
Video Output	Supports CRT, DisplayPort, and 24-bit dual-channel LVDS
Ethernet	2x Intel® I210IT PCI-E Gigabit LAN
I/O Chip	Nuvoton NCT5523D
Serial Port	1x RS232/422/485 (jumperless selection) 1x RS232
USB 2.0	1x USB 2.0 on board 2x USB 2.0 via pin header
USB 3.0/ 3.1	1x USB 3.0 on board
Serial ATA	2x SATA III
Audio	Intel® Atom™ SoC built-in HD Audio controller + Realtek ALC269Q HD codec w/ class-D amplifier
TPM	N/A
Others	Digital I/O, +9V~ +30V DC-In, iSMART
Dimensions (L x W)	102mm x 147mm (4" x 5.8")
Power Consumption	Intel® Atom™ E3845 @ 1.91GHz w/ 2x Transcend 2GB DDR3L-1600 +12V: 1.57A
Operating Temperature	-40°C~85°C (-40°F~185°F)
Storage Temperature	-40°C~90°C (-40°F~194°F)
Relative Humidity	90% (non-condensing @60°C)

Ordering Information

IB897-I45	Intel® Atom™ E3845(1.91GHz) 3.5-inch Disk-Size SBC w/ dual PCI-E GbE LAN, CRT, DisplayPort & LVDS, mSATA, iSMART
IB897-I27	Intel® Atom™ E3827(1.75GHz) 3.5-inch Disk-Size SBC w/ dual PCI-E GbE LAN, CRT, DisplayPort & LVDS, mSATA, iSMART
IB897-I15	Intel® Atom™ E3815(1.46GHz) 3.5-inch Disk-Size SBC w/ dual PCI-E GbE LAN, CRT, DisplayPort & LVDS, mSATA, iSMART
IB897-I45P	Intel® Atom™ E3845(1.91GHz) 3.5-inch Disk-Size SBC w/ dual PCI-E GbE LAN, CRT, DisplayPort & LVDS, mSATA, iSMART, pin-header type for power button and LED
IB897-I27P	Intel® Atom™ E3827(1.75GHz) 3.5-inch Disk-Size SBC w/ dual PCI-E GbE LAN, CRT, DisplayPort & LVDS, mSATA, iSMART, pin-header type for power button and LED
HSIB897-BGA	Heatsink for IB897
HSIB897-BGA-1	Heat spreader for IB897
IB76	Cable kit w/ USB, COM, power, SATA + power, VGA

Dimensions and Drawing



IB897 – 3,5“ SINGLE-BOARD COMPUTER

BOARD / TFT-DISPLAY KITS WITH CABLES AND ACCESSORIES

Display Size	**21,5"** (54.61cm)
Part Number	G215HVN01.0
Manufacturer	AUO
Resolution	1920x1080
Brightness [cd/m2]	300
Backlight	LED
Converter	integrated
Viewing Angle v/h	178°/178°
Interfaces	LVDS
Dimensions mm	495.6×292.2×12.7
Touch	

Form Factor	3,5“ Single-Board Computer
Manufacturer	iBASE
Part Number	**IB897-I45**
Processor	Intel® Atom™ E3845
Memory	4GB DDR3L (optional up to 8GB)
SSD	32GB MLC mSATA (included)
Expansion Slot	2x miniPCIe (1x shared with mSATA)
Display Interface	CRT, DisplayPort
LVDS	**24-bit Dual Channel LVDS**
LAN	2x Gigabit LAN
SATA	2x SATA III
I/O	1x RS232/422/485, 1x RS232 1x USB 3.0, 3x USB 2.0 Digital I/O
Power	9V – 30V DC-in

Other configuration on request!

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