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# Datasheet

## iBASE

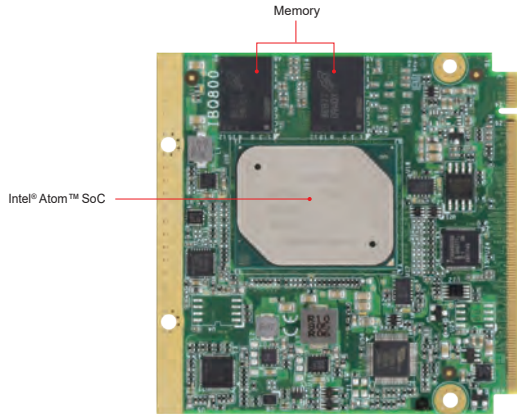
### IBQ800

**Qseven™ Computer-on-Module with Intel® Atom™ Apollo Lake Prozessor**

**x5-E3930 & x7-E3950**

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## Features

- Onboard Intel® Atom™ x5-E3930, 1.8GHz or x7-E3950, 2.0GHz [i-Temp support]
- Onboard LPDDR4 memory
- 1x Intel I210IT PCI-E Gigabit LAN
- Supports TPM (2.0), eMMC5.0 (optional)
- Wide-range operating temperature

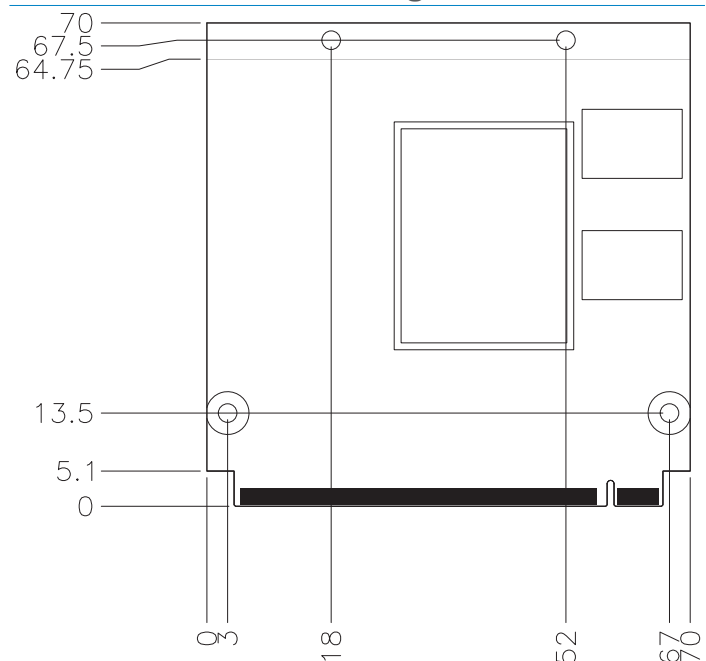
## Specifications

CPU	Intel® Atom™ QC x5/ E3930 (1.3 GHz~1.8GHz) Intel® Atom™ QC x5/ E3940 (1.3 GHz~1.8GHz) Intel® Atom™ QC x7/ E3950 (1.6GHz~2.0GHz)
PCH	Integrated in Intel® SoC
Memory Types	Onboard memory, LPDDR4, Max 8GB
BIOS	AMI
Watchdog Timer	256 levels
H/W Monitor	Yes
Storage Device Interface	eMMC 5.0 up to 32GB (optional)
Expansion slots	4x PCI-E(x1)
Graphics Controller	Intel® SoC integrated Gen9-LP graphics
Video Output	Supports 1x DDI port, 1x eDP or 1x dual-channel LVDS (By option)
Ethernet	1x Intel® I210IT PCI-E Gigabit LAN
I/O Chip	Fintek F81804U-I
Serial Port	1x COM port (RX/TX/RTS/CTS only)
USB 2.0	4x USB 2.0, derived from Qseven CPU module
USB 3.0/ 3.1	3x USB 3.0, derived from Qseven CPU module
Serial ATA	2x SATA III via Carrier Board
Audio	Intel® Atom™ SoC built-in HD audio controller
TPM	TPM (2.0)
Others	SD, from SoC CPU
Dimensions (L X W)	70mm x 70mm (2.75" x 2.75")
Power Consumption	Intel® Atom™ E3950 1.6GHz w/ 8GB memory, DDR4 1600 +12V: 1.7121A
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

IBQ800-X5	Qseven CPU module with Intel® Atom™ E3930 (1.8GHz), 4GB LPDDR4 memory on board, eDP support
IBQ800-X5LV	Qseven CPU module with Intel® Atom™ E3930 (1.8GHz), 4GB LPDDR4 memory on board, LVDS support
IBQ800-X5Q	Qseven CPU module with Intel® Atom™ E3940 (1.8GHz), 4GB LPDDR4 memory on board, eDP support
IBQ800-X5QLV	Qseven CPU module with Intel® Atom™ E3940 (1.8GHz), 4GB LPDDR4 memory on board, LVDS support
IBQ800-x7	Qseven CPU module with Intel® Atom™ E3950 (2.0GHz), 4GB LPDDR4 memory on board, eDP support
IBQ800-X7LV	Qseven CPU module with Intel® Atom™ E3950 (2.0GHz), 4GB LPDDR4 memory on board, LVDS support
IP416	Qseven (R2.1) Carrier Board

## Dimensions and Drawing



Our company network supports you worldwide with offices in Germany, Austria, Switzerland, the UK and the USA. For more information please contact:

## Headquarters

### Germany



#### FORTEC Elektronik AG

Augsburger Str. 2b  
82110 Germering

Phone: +49 89 894450-0  
E-Mail: [info@forteca.de](mailto:info@forteca.de)  
Internet: [www.forteca.de](http://www.forteca.de)

## Fortec Group Members

### Austria



#### Distec GmbH Office Vienna

Nuschinggasse 12  
1230 Wien

Phone: +43 1 8673492-0  
E-Mail: [info@distec.de](mailto:info@distec.de)  
Internet: [www.distec.de](http://www.distec.de)

### Germany



#### Distec GmbH

Augsburger Str. 2b  
82110 Germering

Phone: +49 89 894363-0  
E-Mail: [info@distec.de](mailto:info@distec.de)  
Internet: [www.distec.de](http://www.distec.de)

### Switzerland



#### ALTRAC AG

Bahnhofstraße 3  
5436 Würenlos

Phone: +41 44 7446111  
E-Mail: [info@altrac.ch](mailto:info@altrac.ch)  
Internet: [www.altrac.ch](http://www.altrac.ch)

### United Kingdom



#### Display Technology Ltd.

Osprey House, 1 Osprey Court  
Hichingbrooke Business Park  
Huntingdon, Cambridgeshire, PE29 6FN

Phone: +44 1480 411600  
E-Mail: [info@displaytechnology.co.uk](mailto:info@displaytechnology.co.uk)  
Internet: [www.displaytechnology.co.uk](http://www.displaytechnology.co.uk)

### USA



#### Apollo Display Technologies, Corp.

87 Raynor Avenue,  
Unit 1 Ronkonkoma,  
NY 11779

Phone: +1 631 5804360  
E-Mail: [info@apolloDisplays.com](mailto:info@apolloDisplays.com)  
Internet: [www.apolloDisplays.com](http://www.apolloDisplays.com)