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Datasheet

iBASE

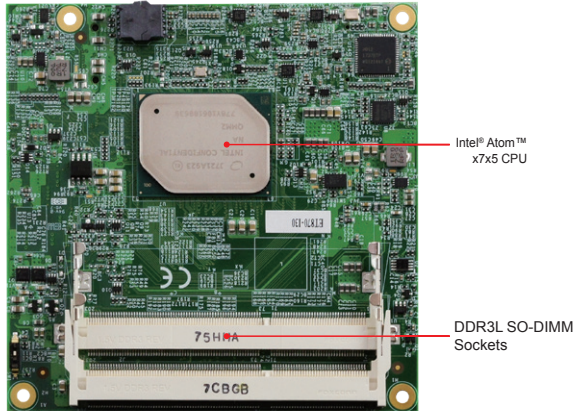
ET870

COM Express™ Compact Module with Intel® Apollo Lake

Atom™ E3950 or E3930 Processor and extended Temperature -40°...+85°C



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Features

- Onboard Intel® Atom™ x7-E3950 @2.0GHz or x5-E3930 @1.8GHz [i-Temp support]
- 2x DDR3L-1866 SO-DIMM sockets, Max. 16GB
- Supports 2x independent displays, DisplayPort/ DVI-D/ LVDS or eDP via carrier board (IP419)
- Supports HD audio via carrier board (IP419)
- Wide-range operating temperature

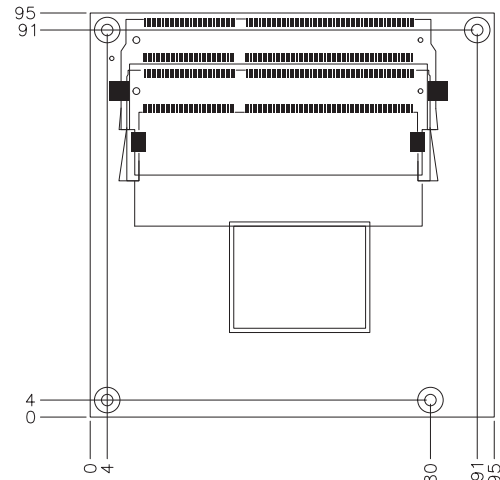
Specifications

CPU Type	Intel® Atom™ QC x5/ E3930 (1.3 GHz~1.8GHz) Intel® Atom™ QC x7 / E3950 (1.6GHz~2.0GHz)
System Memory	2x DDR3L-1866 SO-DIMM sockets, Max. 16GB
System Chipset	Integrated in Intel® SoC
BIOS	AMI
Watchdog Timer	256 levels
SSD	N/A
H/W Monitor	Yes
Expansion Slot	4x PCI-E(x1)
VGA Controller	Intel® SoC integrated Gen9 18EUs graphics
VGA Memory	Shared memory
Display Interface	Supports 2x DDI (DisplayPort / DVI-D) 1x 24-bit dual-channel or eDP
LAN Controller	Intel® I210IT PCI-E Gigabit LAN
LAN Connector	1x RJ-45 on carrier board (IP419)
I/O Chipset	Fintek F81804U-I 2x COM ports (TX/RX only)
USB	3x USB3.0 4x USB2.0
Serial ATA	2x SATA III
Audio	Intel® Atom™ SoC built-in HD Audio
Others	Digital I/O (4-in / 4-out), TPM (2.0)
Dimensions	95mm x 95mm
Max. Power Requirement	Intel® Atom™ E3950 1.6GHz w/ 2x 8GB DDR3L-1600 +12V: 2.18A
Operating Temperature	-40°C ~85°C (-40°F ~ 185°F)
Storage Temperature	-40°C ~ 90°C (-40°F ~ 194°F)
Relative Humidity	10~90% (non-condensing)

Ordering Information

ET870-I50	COM Express (Type 6) CPU Module with Intel® Atom™ x7-E3950 (2.0GHz) SoC, DDR3L dual-channel memory, eDP support
ET870-I50LV	COM Express (Type 6) CPU Module with Intel® Atom™ x7-E3950 (2.0GHz) SoC, DDR3L dual-channel memory, LVDS support
ET870-I30	COM Express (Type 6) CPU Module with Intel® Atom™ x5-E3930 (1.8GHz) SoC, DDR3L dual-channel memory, eDP support
ET870-I30LV	COM Express (Type 6) CPU Module with Intel® Atom™ x5-E3930 (1.8GHz) SoC, DDR3L dual-channel memory, LVDS support
IP419	Mini-ITX COM Express Type 6 (R3.0) carrier board with eDP support
IP419-LV	Mini-ITX COM Express Type 6 (R3.0) carrier board with LVDS support

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@fortecag.de
Internet: www.fortecag.de

Fortec Group Members

Austria



Distec GmbH Office Vienna

Nuschinggasse 12
1230 Wien

Phone: +43 1 8673492-0
E-Mail: info@distec.de
Internet: www.distec.de

Germany



Distec GmbH

Augsburger Str. 2b
82110 Germering

Phone: +49 89 894363-0
E-Mail: info@distec.de
Internet: www.distec.de

Switzerland



ALTRAC AG

Bahnhofstraße 3
5436 Würenlos

Phone: +41 44 7446111
E-Mail: info@altrac.ch
Internet: 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
Internet: 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
Internet: www.apolloDisplays.com