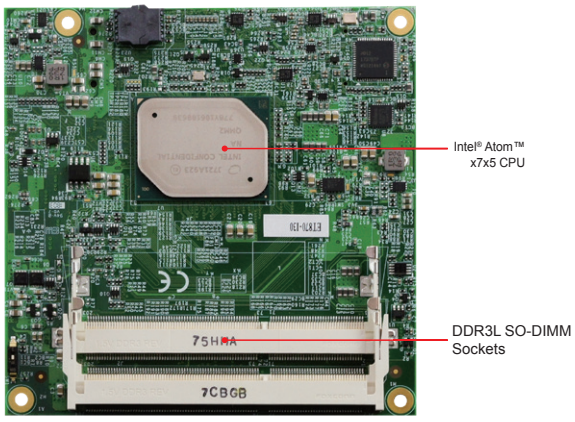
# ET870

## COM Express
## Intel® Atom™ x7/ x5 SoC COM Express Type 6 (R3.0) CPU Module




## 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)<br>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)<br>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<br>2x COM ports (TX/RX only) |
| USB | 3x USB3.0<br>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<br>+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

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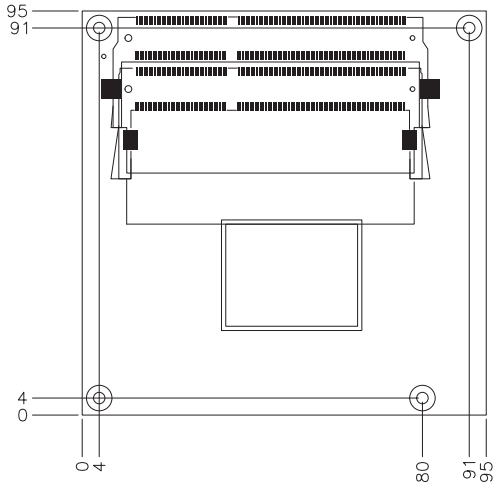
|---|---|
| ET870-I50 | COM Express (Type 6) CPU Module with Intel® Atom™ x7-E3950 (2.0GHz) SoC, DDR3L dual-channel memory, eDP support |
| ET870-I50LV | COM Express (Type 6) CPU Module with Intel® Atom™ x7-E3950 (2.0GHz) SoC, DDR3L dual-channel memory, LVDS support |
| ET870-I30 | COM Express (Type 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