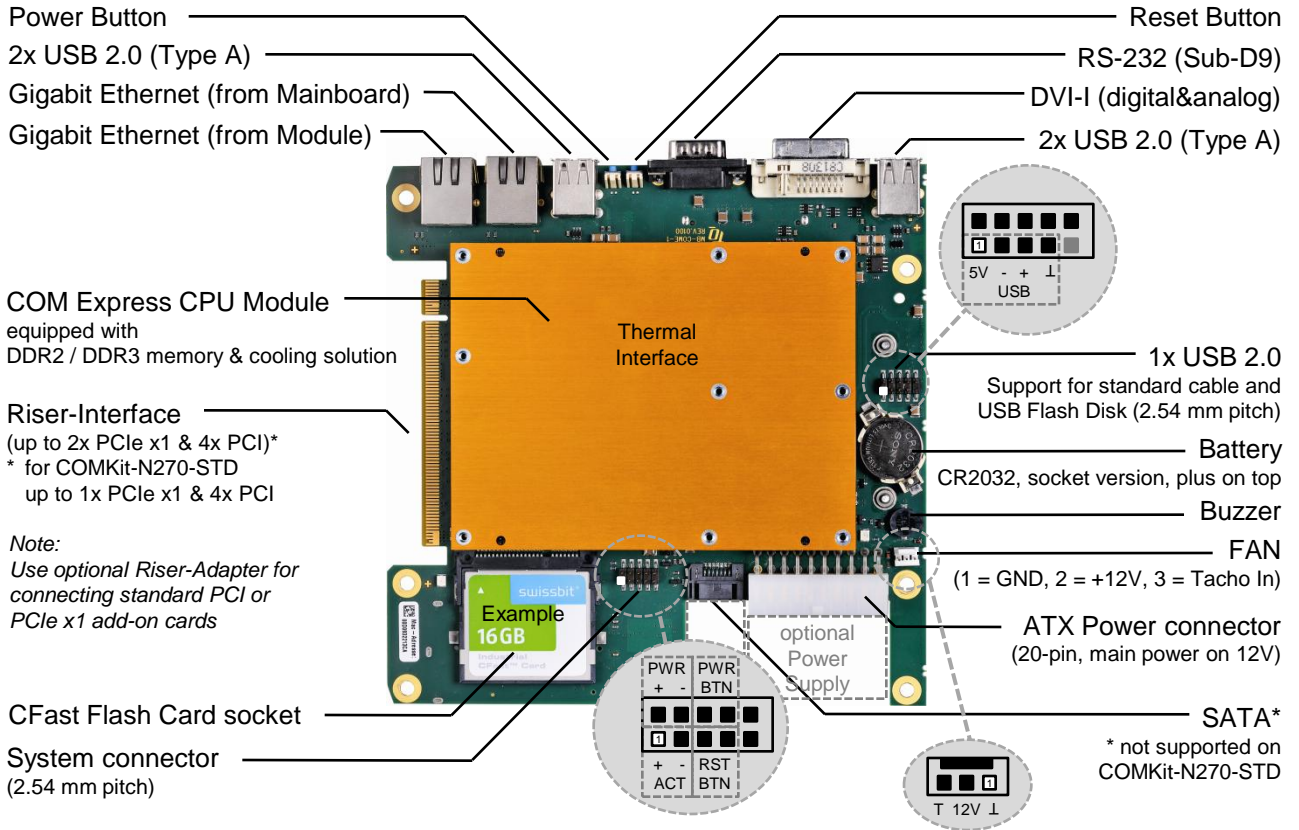
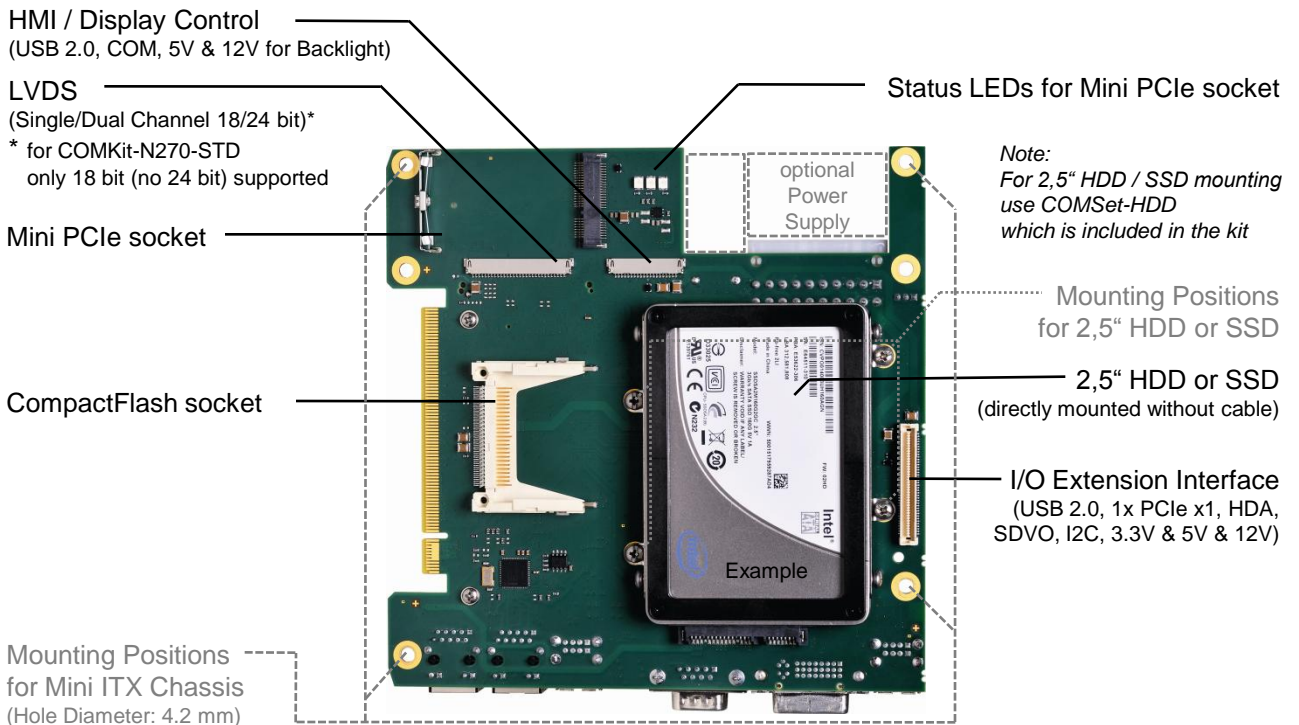


## Interfaces and Components on Top Side



## Interfaces and Components on Bottom Side



## Overview

### **Modular Embedded PC platform based on Mini ITX formfactor.**

*This product is part of the Intel® Embedded Building Blocks Initiative.*

#### Content of the kit:

- Embedded PC kit consisting of mainboard + CPU module + DDR2/DDR3 memory + cooling solution
- COMSet-HDD mounting set for 2,5" HDD or SSD consisting of 2x holding plate + 8x screw M3x6
- Quick Start Guide

#### Standard kits:

(with standard mainboard Mini ITX, 170 mm x 170 mm)

- COMKit-N270-STD (*for ultra low power applications*)
  - conga-CA945/N270 (Intel® Atom N270 & 945GSE)
  - 2GB DDR2 SO-DIMM
  - Heatspreader for direct thermal connection
  - *Note: Not all features of the mainboard are supported (see page 1).*
- COMKit-CM723-STD (*good performance & passive cooling*)
  - conga-BS45/723 (Intel® Celeron M 723 ULV & GS45)
  - 2GB DDR3 SO-DIMM, one additional slot available
  - Heatspreader for direct thermal connection
- COMKit-P8400-STD (*high performance with dual core*)
  - conga-BM45/P8400 (Intel® Core 2 Duo P8400 & GM45)
  - 2GB DDR3 SO-DIMM, one additional slot available
  - Heatsink for using the kit in an active cooled chassis



## First steps

#### Mechanical integration:

- For Mini ITX standard chassis: Use standard mounting positions with additional 22 mm standoffs.
- For optimized chassis of the Embedded Building Blocks Initiative:  
Mount the system to the closure head of the chassis with direct thermal connection between the COMKit thermal solution and the chassis.

#### Power supply:

- Use any ATX power supply which can handle the power specification of the kit.
  - 3.3 V (+/-5%) (< 0,5 A for the mainboard itself)
  - 5 V (+/-5%) (< 0,5 A for the mainboard itself)
  - 12 V (+/-5%) with 0,7 .. 5 A (main supply for the CPU module, power is depending on the CPU type)
  - 5 V Standby (+/-5%) (typical < 0,5 W)
- For optimized mechanical implementation you may use picoPSU miniature ATX power supplies.

#### Power on/off:

- To switch on/off the system use the power button of the mainboard or any power button connected to the system connector.
- For 'Auto Power on' use BIOS setting 'After Power Fail' = 'Power on'. This setting will be active after the first reboot.

For additional information, technical documents, drivers and accessories: visit [www.tq-group.com/COMSys](http://www.tq-group.com/COMSys)