

Si2M SoM Type 6



The Si2M SoM Type 6 is a COM Express Type 6 Compact form-factor System-on-Module, powered by an ARM 8 Cortex-A57 cores CPU.

Today, many embedded applications not only require significant processing performance, but also an increased input-output (I/O) function in a compact form factor. In utilizing the COM method of a module containing all of the components for a host computer attached to a carrier board, the COM Express form factor is poised to become the de facto architecture for balancing performance, size, I/O and thermals within the embedded computing market.

The module is made in accordance with the form factor COM Express Type 6 Compact. The COM Express Type 6 Compact form factor modules have a standardized board size: 95 mm long and 95 mm wide. Two high-speed connectors are used to connect to the mainboard: COM-AB and COM-CD with a standardized pinout.

The module is intended to be used in conjunction with a carrier board. The carrier board provides the input-output interface connection for the computing module interaction with the user and external devices.

The product is designed to be used in the following areas of technology:

- industrial electronics;
- information security;
- mobile equipment;
- automated workstations.

Si2M SoM Type 6 specifications and interfaces

Specifications

Factory designator	Si2M-02
CPU	8 cores ARM Cortex-A57 up to 1.5 GHz, ARMv8-A
GPU	8 cores Mali-T628 up to 500 MHz
L2 Cache	1 MB per cluster
L3 Cache	8 MB
RAM	from 4 to 16 GB DDR4-1600 (2400), SO-DIMM
SSD	M.2 SATA SSD (optional)
Power	35 W
Dimensions	95 x 95 mm
Form-factor	COM Express Type 6 Compact
Heatsink	LGP-4 heatsink

Interfaces

PCI Express lanes	8 + 4 + 4
Serial ATA channels	2 (or 1 + M.2 SATA)
USB 2.0 ports	4
USB 3.0 ports	2
HDMI port	1
LVDS port	A/B
Ethernet 1Gb	2
UART	2
I2C	1
Power-On/Power-Good/Reset/Sleep	1/1/1/1
FAN control	1