

# Evaluation Kit for 3SM2008 series SoM

## 3AT1028

### FEATURES

- Supports all 3SM2008 series SoM
- Full featured and flexible solution
- Designed to speed up and simplify 3SM2008 based product development
- Designed to take advantage of 3SM2008 features and peripherals

### CPU

- NXP i.MX 8M Plus Dual / QuadLite / Quad Arm® Cortex®-A53 CPU
- Dual / Quad core versions
- CPU frequency up to 1800 MHz
- Additional Cortex-M7 Core up to 800 MHz
- Neural Processing Unit (NPU) depending on SoM configuration

### DRAM MEMORY

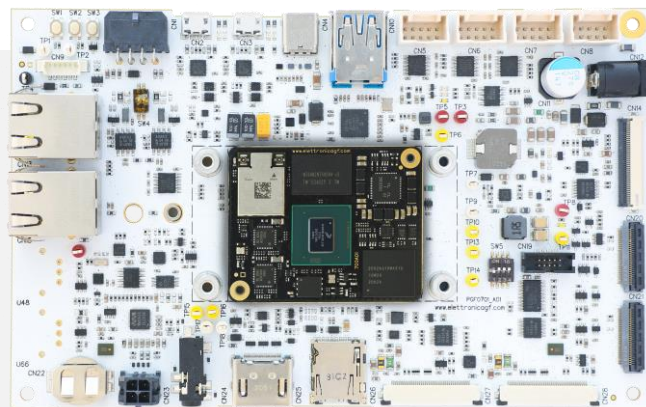
- Up to 4GB LPDDR4 memory with 32 bit wide Bus

### STORAGE / BOOT MEMORY

- Up to 64 GB eMMC Flash memory
- microSD slot

### MULTIMEDIA<sup>1</sup>

- 4 display connectors available:
  - MIPI-DSI Display (4-Lane)
  - HDMI
  - 2 x LVDS
- 2 camera connectors available
  - MIPI-CSI Camera (4-Lane)
- Integrated Audio Codec
  - Headphone Jack (with mic)
  - Speaker output (8 ohm – 1W)
- Optical SPDIF output (optional)
- 2 x PDM digital microphones



### I/O PERIPHERALS<sup>1</sup>

- 1 x USB 3.1 Host Connector
- 1 x USB Type-C OTG Connector with DRP
- M.2 Key-B Connector for Modem or SSD expansion
- 2 x CAN BUS Interfaces with integrated High Speed Transceiver and CAN FD support up to 5 Mbit/s
- 2 x LAN 10/100/1000 RJ45 connectors
- 4 x RS-232 UART Connectors
- 2 x USB Debug Connectors with integrated FTDI Chip for Cortex-A53 and Cortex-M7 Debug

### SYSTEM

- Single +12-24 VDC ±10% power supply

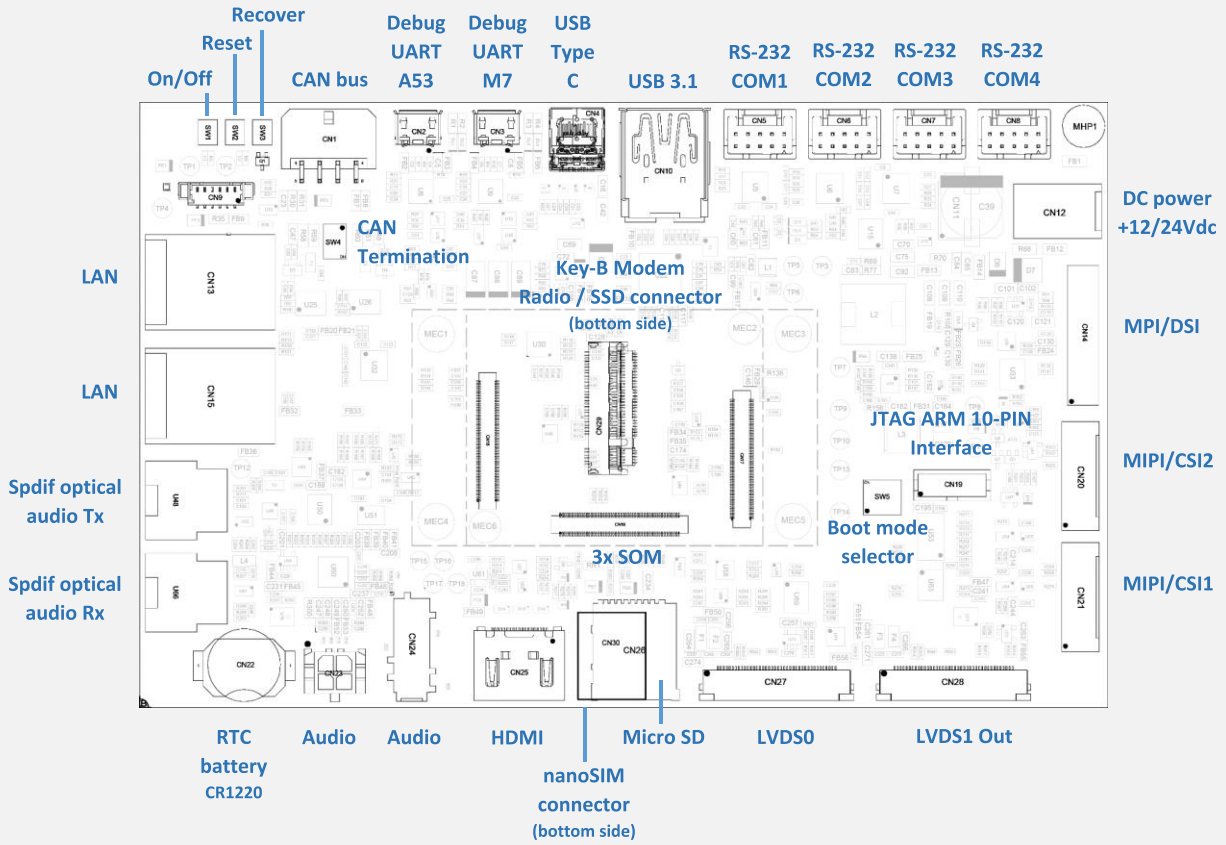
### OPERATING SYSTEMS

- Linux (Cortex® - A53 core) + FREERTOS (Cortex® - M7)

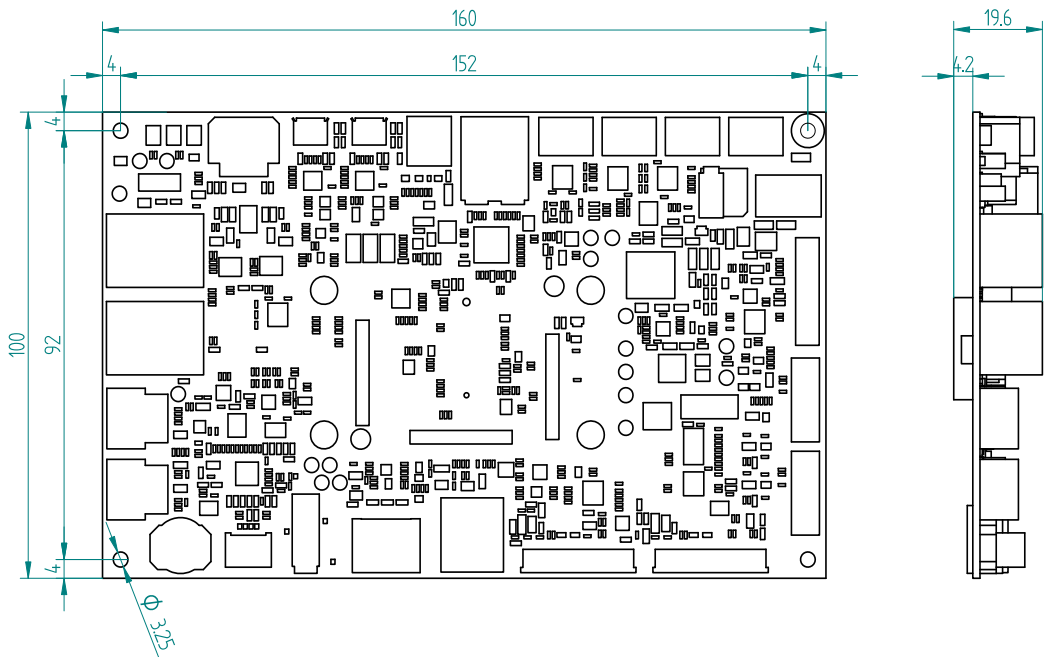


<sup>1</sup> Please note that not all the functions may be available simultaneously, due to pin mux limitation of CPU case. For more information, refer to NXP user's manual.

**BOARD FUNCTIONS**



**DIMENSIONS (mm)**



**STANDARD ORDERING CODE**

Ordering Code	Descriptions
3AT1028_A01	Evaluation kit OS Linux



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