

# Evaluation Kit for 3SM1008 series SoM

## 3AT1029



### FEATURES

- Supports all 3SM1008M and 3SM1008N series SoM
- Complete and flexible solution
- Huge availability of peripherals
- Designed to speed up and simplify 3SM1008 based product development

### CPU

- NXP i.MX 8M Mini / Nano Solo / Dual / Quad Arm® Cortex®-A53 CPU
- Standard or Lite CPU options
- CPU frequency up to 1800 MHz
- Additional Cortex-M4F Core up to 400 MHz

### DRAM MEMORY

- Up to 4GB DDR4 memory with 32 bit wide Bus

### STORAGE / BOOT MEMORY

- Up to 64 GB eMMC Flash memory
- microSD slot

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

- 10.1" LVDS display connector
- Support for PCT projective capacitive touch screen
- Support for 4-wire Resistive touch screen
- MIPI CSI Camera connector (for 3AT1019 camera board)
- Integrated Audio Codec

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

- USB 2.0 Host
- USB 2.0 OTG
- Ethernet 1Gbps
- 1 x CAN BUS Interface with integrated Transceiver
- RS-232 (with hardware flow-control)
- RS-485 full duplex
- Serial port SW selectable between RS-232 and RS-485 full duplex
- 2 x Digital I/O
- 2 x SPI interfaces
- 2 x I2C Bus interfaces
- BLE 5.0
- WiFi 2.4 GHz IEEE 802.11 b/g/n
- GPIOs available
- Buzzer
- Temperature sensor
- RTC

### SYSTEM

- Single +12-24 VDC ±10% power supply

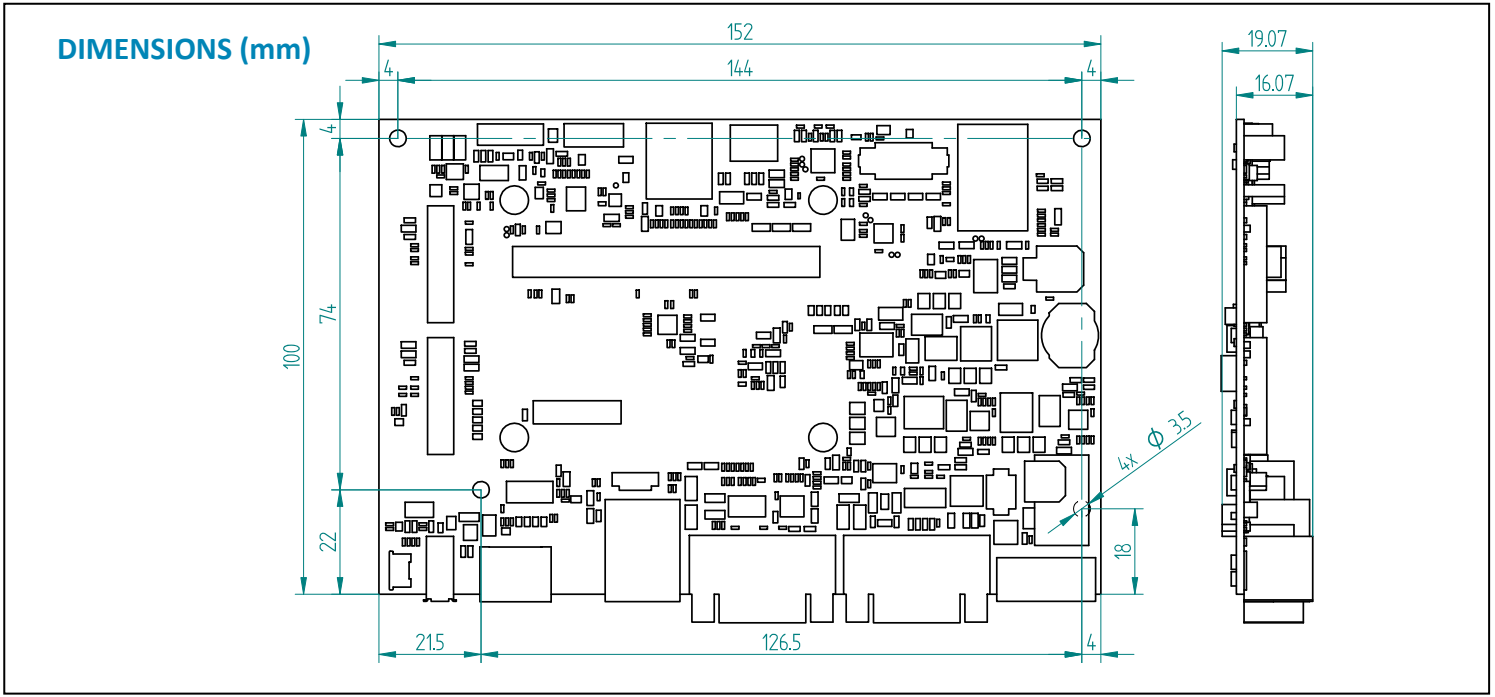
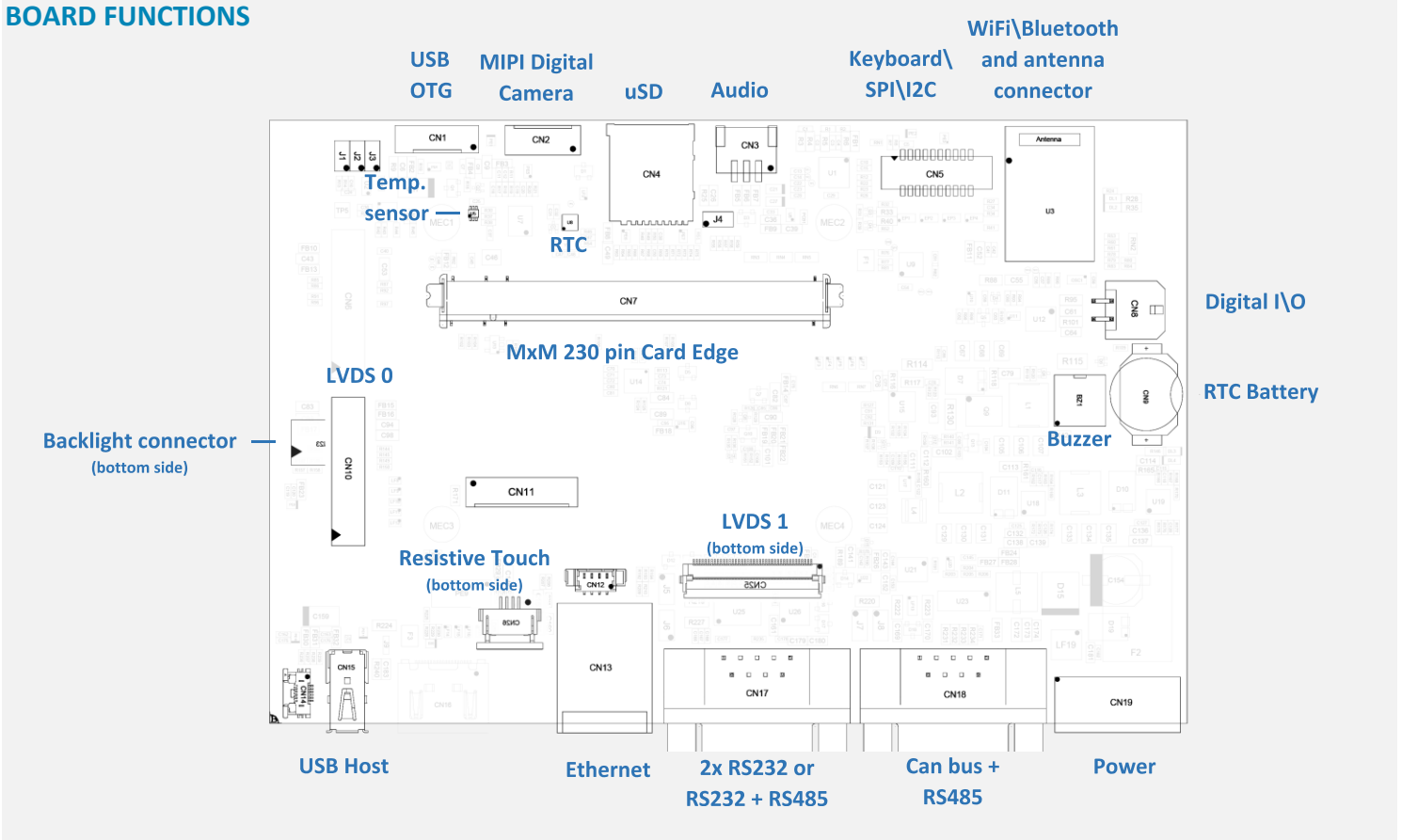
### OPERATING SYSTEMS

- Linux (Cortex® - A53 core) + FREERTOS (Cortex® - M4F)



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

**BOARD FUNCTIONS**



**STANDARD ORDERING CODE**

Ordering Code	Descriptions
3AT1029_A01	Evaluation kit OS Linux with 10.1" PCT display and 3SM1008M SoM Module
3AT1029_B01	Evaluation kit OS Linux with 10.1" PCT display and 3SM1008N SoM Module



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Elettronica GF S.r.l. Via Ca' Bianca, 10 - 48018 - Faenza (RA) - Italy  
 Tel. (+39) 0546 622245 Fax (+39) 0546 622301  
 Web: www.elettronicagf.com Mail: sales@elettronicagf.it  
 3AT1029-FL-EN\_A01