ELETTRONICA

GF

A FAE TECHNOLOGY COMPANY

3AT1025

EVB for **Q29** SoM based on **i.MX6** processor in Package on Package (PoP)

FEATURES

- Support all Q29 series SOM
- Complete and flexible solution
- Designed to highlight Q29 series SOM modules features
- Designed to speed up and simplify Q29 based product development
- Low power consumption in stand by
- Small footprint only 90mm x 90mm

CPU

- NXP i.MX6 Application processor
  Dual / Quad Core ARM® Cortex® - A9 CPU
- CPU Frequency: 800 MHz

MEMORY

- Up to 2GB LPDDR2

STORAGE / BOOT

- Up to 64 GB eMMC
- SPI FLASH 8 MB (up to 64MBon request)
- microSD card slot

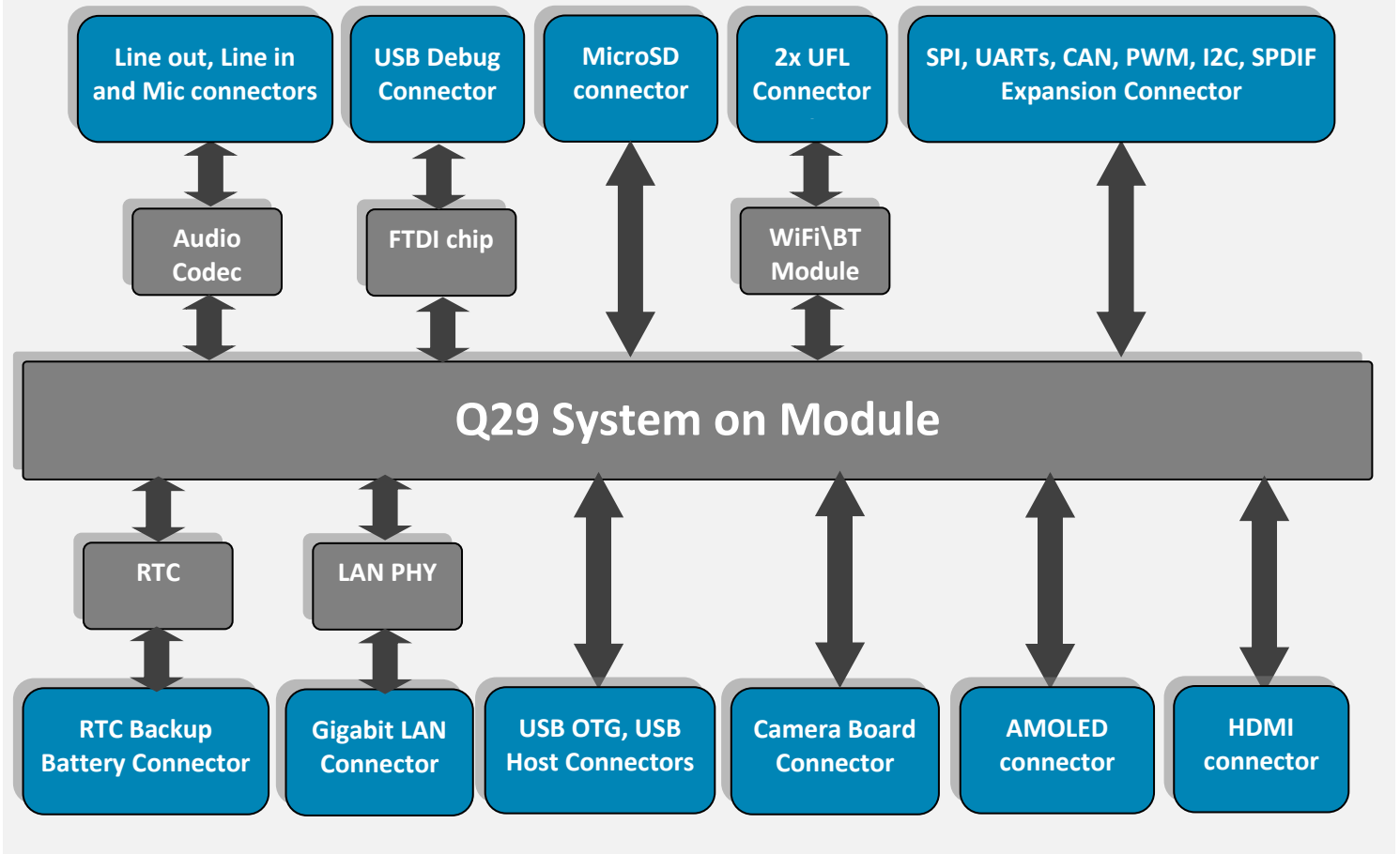**NXP PARTNER PROGRAM**

I/O PERIPHERALS

- 1 x USB 2.0 OTG port
- 1 x USB 2.0 Host port
- 1 x USB Debug port
- 1 x Ethernet 1Gbps
- WiFi / BT module on board
- MIPI camera connector for provided camera board
- 1 x HDMI display connector
- 1 x AMOLED display connector for provided display
- Microphone, line in and audio out connector on board
- SPDIF input and output
- RTC with backup battery
- 1 x FLEXCAN BUS Interface
- 2 x UART TTL Level
- 1 x I2C Interfaces
- 1 x SPI Interfaces
- GPIOs available
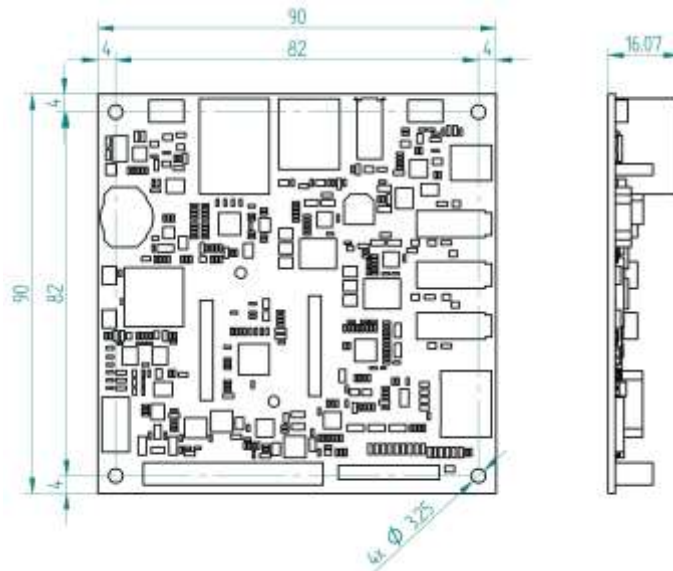- 2 x PWM outputs
- 12V power supply input

OPERATING SYSTEMS

- Linux

BOARD DIAGRAM

Line out, Line in and Mic connectors	USB Debug Connector	MicroSD connector	2x UFL Connector	SPI, UARTs, CAN, PWM, I2C, SPDIF Expansion Connector
Audio Codec	FTDI chip		WiFi\BT Module	

Q29 System on Module

RTC	LAN PHY				
RTC Backup Battery Connector	Gigabit LAN Connector	USB OTG, USB Host Connectors	Camera Board Connector	AMOLED connector	HDMI connector

DIMENSIONS

90
82
4
4
16.07
90
82
4
6x Ø 3.25

All dimensions are in mm

Standard ordering code

Ordering Code	Description
3AT1025_A01	EVB for SoM Q29 based on NXP i.MX6 processor*

∗   **SoM included: 3SM2002A1B1.0**