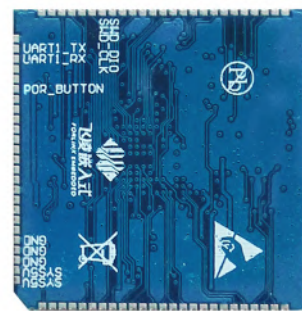# FET1061-S SoM

DESCRIPTION

FET1061-S system on module is based on NXP Cortex-M7 MCU i.MX RT1061@ 528MHz, it has on-chip SRAM up to 1MB, 512KB can be flexibly configured as TCM or general purpoes on-chip RAM, and it can support QSPI-NOR Flash of 4MB.It has a compact volume of 30x 30x 3mm,100 pins are avialbe with pitch of 1.0mm. It integrates HS_GPIO, CAN-FD and NAND/ NOR/ PSRAM controllers. The SoM temp width ranges from -40 to +85 degree. Meanwhile, various prepherial interface such as UART, 2x Ethewrnet, USB, CAN, CAN-FD, HS_GPIO and PWM, ADC are available. Bare metal and FreeRTOS are both supported.

SoM FET1061-S Features			
CPU	NXP i.MX RT1061	CAN	2
Architecture	Cortex-M7	IIC	4
Frequency	528MHz	SPI	3
RAM	1MB On Chip SRAM	SD/SDIO	2
ROM	QSPI Nor Flash 4MB/16MB	USB	2
OS	FreeRTOS, RT-Thread, bare metal	PWM	26
Voltage input	5V	SPDIF	1
Working Temp	-40℃ ~ +85℃	SWD	1
Package	edge soldering	Keypad port	1,8 x 8 keypad
Dimensions	30mm x 30mm	ADC	10
SAI	2	QSPI	1
Ethernet	2,10/100Mbps auto-negotiable	CAN FD	1
UART	7	HS-GPIO	32

OK1061-S Single Board Computer

Audio	1x Phone，1xMic	USB OTG	1x USB2.0 OTG
Ethernet	2,10/100Mbps auto-negotiable	PWM	1,backlight
UART	1, 3-wire	RTC	RX8010+CR1220
RS232	1x debug	SWD	1
CAN	1	Key	reset, sleeping waken up, power key
IIC	1	DIP	1
SPI	1	LED	1
Camera	1x DVP，for i.MX RT1052/1062	Keypad port	1, 4 x 4 keypad
TF Card	1	EEPROM	1,256 bytes
USB Host	1x USB 2.0	Power In	5V
ADC	5(1x 4-wire resistive touch, 1x adjustable resesitor)		

◆ TARGET APPLICATION

UAV, HMI, PLC, motor control, motion control, robotic, smart lighting, solar converter, power system control, conditioner, concentrator.