



Devoted to designing and manufacturing of embedded development platforms for smart devices



System on Module | Single Board Computer | Embedded Computer | Custom Designing



Content

Single Board Computer OKMX8MM-C.....	3
Single Board Computer OKMX6Q/DL-C.....	5
Single Board Computer OKMX6Q/DL.....	7
Single Board Computer OKMX6UL-C1.....	9
Single Board Computer OKMX6UL-C2.....	11
Single Board Computer OK1052-C.....	13
Single Board Computer OK1061-S.....	15
Single Board Computer OK1046A-C.....	17
Single Board Computer OK1043A-C.....	19
Single Board Computer OK1012A-C.....	21
Single Board Computer OK5718-C.....	23
Single Board Computer OK335xD.....	25
Single Board Computer OK335xS.....	27
Single Board Computer OK335xS-II.....	29
Single Board Computer OKxx18-C.....	31
Single Board Computer OKXX18-C2.....	33
Single Board Computer OKA40i-C.....	34
Embedded Computer FCU1101 for Gateway Solution.....	36
Embedded Computer FCU1201.....	37

Single Board Computer OKMX8MM-C



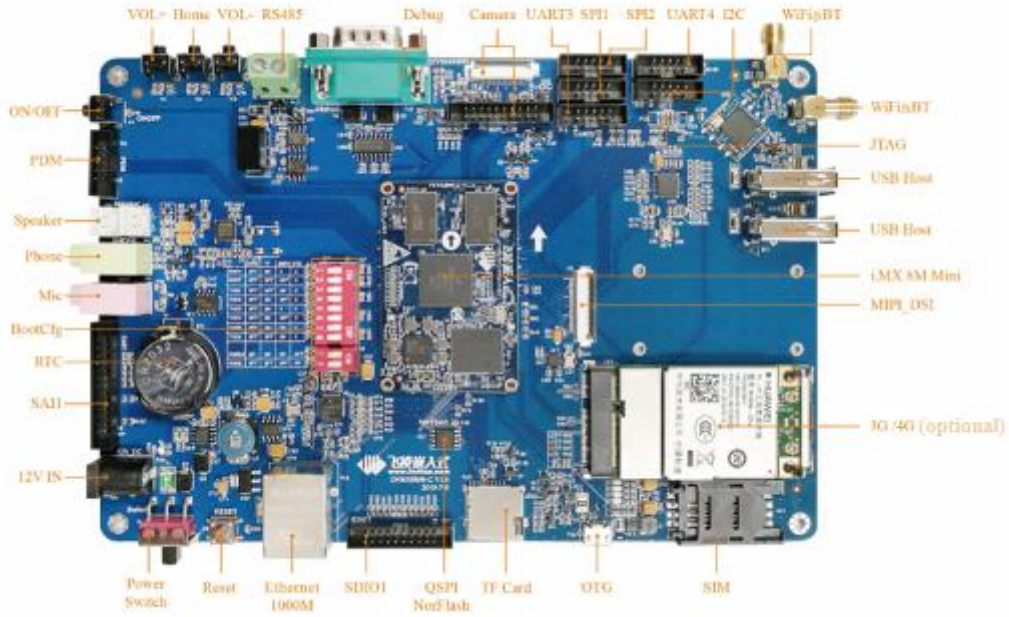
Name: Single board computer
Model: OKMX8MM-C
CPU: NXP i.MX8M Mini
Architecture: Cortex-A53+ Cortex-M4
RAM: 2GB DDR3
Flash: 8GB eMMC
Main Frequency: 1.8GHz
OS: Linux4.14.78+ QT5.10.1, Android9.0

OKMX8MM-C single board computer consists of SoM FETMX8MM-C and carrier board. The SoM was designed with 8-layer PCB in ENIG processing based on NXP i.MX8M Mini processor with frequency up to 1.8GHz, it has a compact appearance with dimensions of 56mmx 36mm. The SoM is with three ultra thin connectors with height of 2.0mm connectors on its back for connecting with carrier board and anti-plug mark for the sake of users to avoid misconnection. Various interfaces are available for connecting peripherals, such as PCIe2.0, Gigabit Ethernet, SDIO/ eMMC, USB2.0, MIPI-CSI, MIPI-DSI, etc. In software, Linux4.17.78 with QT5.10.1 and Android9.0 are well supported.



SoM FETMX8MM-C Features

CPU	NXP i.MX8M Mini	Display	4-wire MIPI-DSI
Architecture	Quad-core Cortex-A53+ single core Cortex-M4	SAI	5-ch,
Main Frequency	≤1.8GHz	UART	4-ch
RAM	2GB DDR3	IIC	4-ch
FLASH	8GB eMMC	eCSPI	3-ch
OS	Linux4.14.78+ QT5.10.1/ Android9.0	FlexSPI	1-ch
Voltage Input	5V	Camera	1-ch, MIPI-CSI
Working Temp	0°C~ +70°C/ -40°C~ +85°C	SD/ SDIO	2-ch
Packing	connectors (3* 80pin, pitch of 0.5mm)	USB	2-ch, USB2.0 OTG
Dimensions	56mm*36mm	PCIe	1-ch
PMU	BD71847AMWV-E2	PWM	4-ch
GPU	3D: GC NanoUltra, 2D: GC320	JTAG	1-ch
Video Codec	1080P60 AVC/ H.264, VP8 encoder	PDM	1-ch
Ethernet	1x 10/ 100/ 1000Mbps auto-negotiation		



OKMX8MM-C Carrier Board Features

Display	1-ch MIPI-DSI	SD/ MMC/ SDIO	1-ch TF card, 1-ch SDIO
Audio	1-ch Phone, 1-ch MIC, 1-ch Speaker	USB Host	2-ch, USB2.0
Ethernet	1-ch, 10/ 100/ 1000Mbps auto-negotiation	USB OTG	1-ch, USB2.0
UART	1-ch	WiFi& BT	1-ch
Debug	1-ch A53 (RS232), 1-ch M4 (UART)	Mini PCIe	1-ch
RS485	1-ch	PWM	1-ch
IIC	4-ch	JTAG Debug	1-ch
SPI	2-ch	PDM	1-ch
QSPI	1-ch, on-board 16MB QSPI NorFlash	SAI	1-ch
Camera	1-ch, MIPI-CSI		

Single Board Computer OKMX6Q/DL-C



Name: Single board computer
Model: OKMX6Q-C, OKMX6DL-C
CPU: NXP i.MX6Q or i.MX6DL
Architecture: Cortex-A9
RAM: 1GB DDR3 (2GB optional)
Flash: 8GB eMMC
Main Frequency: 1GHz (industrial 800MHz)
OS: Linux4.1.15/ 3.0.35, Android6.0/ 4.4.2

OKMX6Q-C/ OKMX6DL-C is a ready-to-use single board computer consists a 4-layer EINT PCB carrier board and SoM FETMX6Q-C/ FETMX6DL-C, on-board Gigabit Ethernet, CAN bus, parallel camera, WIFI&BT are all available on its carrier board, MIPI, MLB and EMI bus are all unique features of its CPU. The CPU module was approved by EMC and working temp testing



SoM FETMX6DL/ FETMX6Q-C Features

CPU	NXP i.MX6Q/ i.MX6DL	UART	5-ch
Architecture	Cortex-A9	CAN	2-ch,
Main Frequency	1.0GHz (industrial: 800MHz)	IIC	3-ch
RAM	1GB DDR3 1066MHz (2G optional)	SPI	5-ch
FLASH	8GB eMMC	EIM	32-bit data bus, 27-bit address bus
OS	Android4.4/ Linux 3.0.35/ Linux 4.1.15	Camera	1x DVP, 1x MIPI_CSI
Working Temp	0°C~ +70°C/ -40°C~ +85°C	SD/ MMC/ SDIO	3-ch
Packing	connectors (4* 80pin, pitch of 0.5mm)	USB	1x USB2.0 Host, 1x USB2.0 OTG
Dimensions	40mm*70mm	SATA	1-ch (only for i.MX6Q)
PMU	MMPF0100NPEP	Mini PCIe	1-ch
GPU	Vivante GC355/ Vivante GC320	PWM	4-ch
Video Codec	Hardware codec	MLB	1-ch
Display interface	1x RGB888, 2x 8-bit LVDS, 1x HDMI, 1x MIPI	SPDIF	1-ch
IIS	4-ch	JTAG	1-ch
Ethernet	1-ch, 10/ 100/ 1000M	EINT/ GPIO	supported

Certificate: CE/ FCC/ RoHS



OKMX6Q-C Carrier Board Features

Audio	1-ch phone, 1-ch MIC, 2-ch speaker	Key	3
IIC	3-ch	DIP	for setting up of booting mode
SPI	3-ch	Reset	1
CAN	1-ch	PWM	4-ch, 1 for backlight
MIPI camera	1-ch	LCD	1-ch, resistive/capacitive
DVP camera	1-ch, OV5640	EINT	supported
SD/MMC/SDIO	2-ch	GPIO	Supported
USB Host	2-ch, USB 2.0 host	LVDS	2-ch
USB OTG	1-ch, USB2.0 OTG	HDMI	1-ch
Ethernet	1-ch, 1000/100/10M	MIPI Display	1-ch
UART	5-ch (1x debug, 3x 3-wire, 1x 5-wire)	SATA	1-ch, only for i.MX6Q
IrDA	1-ch	EIM	Supported
Power Adapter	5V	3G/4G	mini PCIE interface for 3G/4G module
RTC	CPU RTC and on-board RTC	WIFI&BT	1-ch
ADC	external expand resistive touching controller	JTAG	Supported

Single Board Computer OKMX6Q/DL



Name: Single Board Computer
Model: OKMX6Q/DL
CPU: i.MX6Quad/i.MX6DL
Architecture: Cortex-A9
RAM: 1G DDR3 1066
Flash: 8GB eMMC
Main Frequency: 1GHz
OS: Android, Linux

OKMX6Q/DL is a Cortex-A9 featuring single board computer based on Freescale i.MX6Quad/Dual Lite processor with excellent hardware and software Performance. On-board connectors for DVP camera, LVDS, HDMI, SD card, CAN, RS485, IrDA, SATA, audio, 3-axis gravity accelerator, etc are all available and ready-to-use. Both commercial grade 0°C ~ +70°C and industrial grade -40°C ~ +85°C are optional.



FETMX6Q



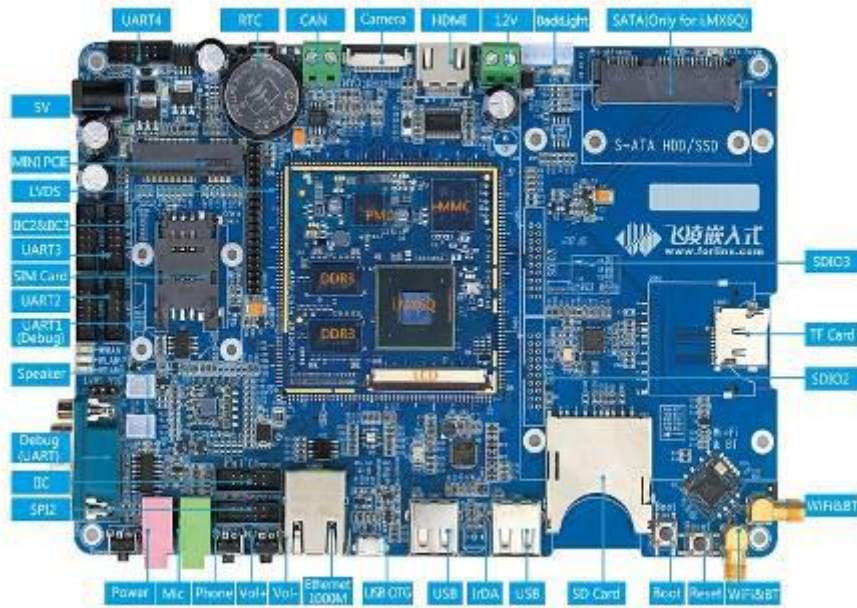
FETMX6DL



SoM FETMX6DL/ FETMX6Q Features

CPU	NXP i.MX6DL / i.MX6Quad	Display Interface	1x RGB 888, 2x LVDS with 8-bit, 1x HDMI
Architecture	Cortex-A9	IIS	1-ch
Main Frequency	1.0GHz (industrial grade 800MHz)	Ethernet	1-ch, 10/ 100/ 1000M
RAM	1GB DDR3 (2G optional)	UART	4-ch
FLASH	8GB eMMC	CAN	2-ch
OS	Android4.4/Linux3.0.35/ Linux4.1.15	IIC	3-ch
Voltage Input	4.2V	SPI	2-ch
Working Temp	0°C ~ +70°C/ -40°C ~ +85°C	Camera	1-ch, DVP OV5640
Packing	Edge soldering (220 pins, pitch of 1mm)	USB	1x USB2.0 Host, 1x USB2.0 OTG
Dimensions	60mm*60mm	SATA	1-ch(Only for i.MX6Q)
PMU	MMPF0100NPEP	Mini PCIe	1-ch
GPU	Vivante GC355/ Vivante GC320	EINT/ GPIO	Supported
Video Codec	Hardware codec	SD/ MMC/ SDIO	2-ch

Certificate: CE/ FCC/ RoHS



OKMX6Q/DL Carrier Board Features

Audio	1-ch phone,1-ch MIC,2-ch speaker	IrDA	1-ch, empty soldering
I2C	3-ch	RTC	supported
SPI	1-ch	User Key	2
CAN	2-ch	DIP	1-ch, boot mode selection
Camera	1-ch	Sleeping Awake Key	1
SDIO	2-ch	Reset	1-ch
SD/MMC	2-ch	PWM	2-ch
USB HOST	2-ch, USB2.0 host	EINT	supported
USB DEVICE	1-ch, USB2.0 OTG	GPIO	supported
Ethernet	1-ch, 10M/100M/1000M Ethernet	LVDS	2-ch
UART	4-ch (1 debug port, 2x 3-wire serial, 1x 5-wire serial port)	Power Supply	1x 5V mandatory power 1x 12V auxiliary power
HDMI	1-ch	SATA	1-ch, only for i.MX6Q
Mini PCIE	1-ch	WIFI&BT	1-ch

Single Board Computer OKMX6UL-C1



Name: Single board computer
Model: OKMX6UL-C1
CPU: i.MX6Ultra Lite
Architecture: Cortex-A7
RAM: 512MB LvDDR3
Flash: 4G eMMC
Main Frequency: 528MHz
OS: Linux

OKMX6UL-C1 development board/kit is designed based on NXP Cortex-A7 featuring processor i.MX6Ultra Lite and consists of a compact CPU module with carrier board. OS Linux is well supported. It aims at low power applications such as telematics, IoT gateway, HMI, home energy management systems, smart energy concentrators, intelligent industrial control systems, electronics POS device, smart appliances, financial payment systems, etc.



SoM FETMX6UL-C1/ FETMX6ULC2 Features

CPU	NXP Cortex-A7 processor i.MX6UL@ 528MHz	CAN	2-ch
SPI	4-ch	IIC	4-ch
RAM	512MB LvDDR3 (commercial grade) 256MB DDR3 (industrial grade)	EIM	16-bit data bus 16-bit address bus
Flash	4GB eMMC (commercial grade) 256MB NAND Flash (industrial grade)	Camera	1-ch, DVP
OS	Linux3.14.38+ QT4.8.5; Linux 4.1.15+QT5.6	SD/ MMC/ SDIO	2-ch
Voltage Input	5V	USB	2-ch, USB2.0 OTG
Working Temp.	0°C~ +70°C(commercial grade) -40°C~ +85°C(industrial grade)	PWM	8-ch
Packing	Board-to-board connectors (2* 80 pins, pitch of 0.8mm)	SPDIF	1-ch
Dimensions	40* 50mm	JTAG	1-ch
Video Codec	Software codec	EINT/ GPIO	Supported
Display Interface	1-ch, RGB 888	Keypad	1-ch, 8x 8 matrix keypad
IIS	3-ch	ADC	10-ch
Ethernet	2-ch, 10/ 100Mbps	QSPI	1-ch
UART	8-ch	ISO7816-3	2-ch

Certificate: CE/ FCC/ RoHS



OKMX6UL-C1 Carrier Board Features

AUDIO	1x Phone, 1x MIC, 2x Speaker	JTAG	Supported
I2C	2-ch, pinned out	PWM	1-ch for LCD backlight
SPI	Supported	DIP	8
CAN	2-ch	Reset	1-ch
CAMERA	1-ch, 5MP parallel interface camera, OV5640	ADC	4-ch for resistive touching
SD/MMC/SDIO	1-ch	LCD	1-ch for 7" resistive LCD
USB Host	3-ch, USB2.0 host	EINT	Supported
USB Device	1-ch, USB micro 2.0 device	GPIO	Supported
Ethernet	2-ch, 10/100M Ethernet, RJ45	EBI BUS	Supported
Serial Port	3-ch, pinned out	WiFi&BT	1-ch
Power Input	5V	GPS	Serial port GPS module
LED	4-ch	3G	USB 3G module
Camera	OV9650 (picture preview and take photos)	4G	Huawei 909ES module
RTC	Supported		

Single Board Computer OKMX6UL-C2



Name: Single board computer
Model: OKMX6UL-C2
CPU: i.MX6Ultra Lite
Architecture: Cortex-A7
RAM: 256MB DDR2
Flash: 256MB NAND Flash
Main Frequency: 528MHz
OS: Linux

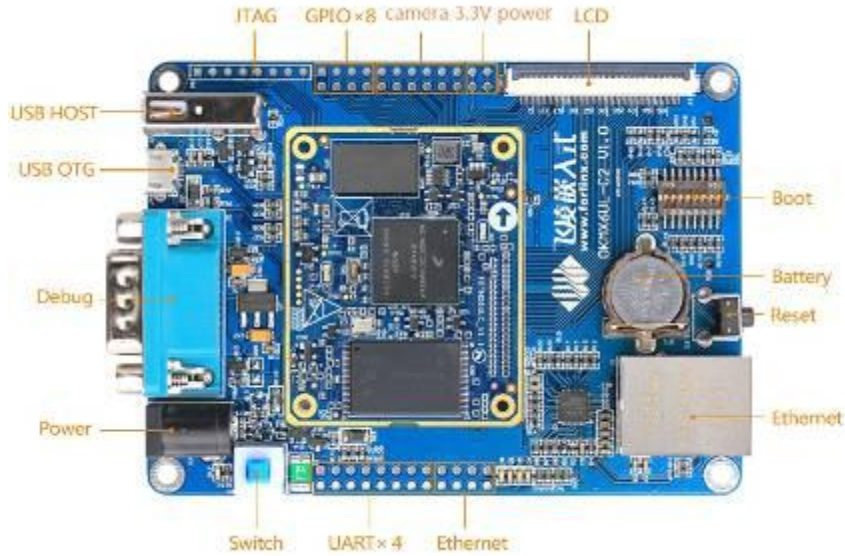
OKMX6UL-C2 is a compact sized industrial grade carrier board which is available for both FETMX6UL-C1 and FETMX6UL-C2.



SoM FETMX6UL-C1/ C2 Features

CPU	NXP Cortex-A7 processor i.MX6UL@ 528MHz	CAN	2-ch
SPI	4-ch	IIC	4-ch
RAM	512MB LvDDR3 (commercial grade) 256MB DDR3 (industrial grade)	EIM	16-bit data bus 16-bit address bus
Flash	4GB eMMC (commercial grade) 256MB NAND Flash (industrial grade)	Camera	1-ch, DVP
OS	Linux3.14.38+ QT4.8.5; Linux 4.1.15+QT5.6	SD/ MMC/ SDIO	2-ch
Voltage Input	5V	USB	2-ch, USB2.0 OTG
Working Temp.	0°C~ +70°C (commercial grade) -40°C~ +85°C (industrial grade)	PWM	8-ch
Packing	Board-to-board connectors (2* 80 pins, pitch of 0.8mm)	SPDIF	1-ch
Dimensions	40* 50mm	JTAG	1-ch
Video Codec	Software codec	EINT/ GPIO	Supported
Display Interface	1-ch, RGB 888	Keypad	1-ch, 8x 8 matrix keypad
IIS	3-ch	ADC	10-ch
Ethernet	2-ch, 10/ 100Mbps	QSPI	1-ch
UART	8-ch	ISO7816-3	2-ch

Certificate: CE/ FCC/ RoHS



OKMX6UL-C2 Carrier Board Features

LCD	1-ch, RGB565	PWM	1-ch, backlight
USB Host	1-ch, USB2.0 host	ADC	4x-ch, for resistive touch
USB OTG	1-ch, USB 2.0 OTG	UART	4-ch, 2x 5-wire, 2x 3-wire
Ethernet	1-ch, 10/100Mbps Ethernet, RJ45	UART Debug	1-ch, DB9 debug port
SD Card	1-ch, SD/SDHC/SDXC(UHS-I)	JTAG	1-ch
LED	4-ch	GPIO	Supported
Reset	1-ch	Power Supply	5V
RTC	Supported	DIP	A boot key for booting mode selection

Single Board Computer OK1052-C



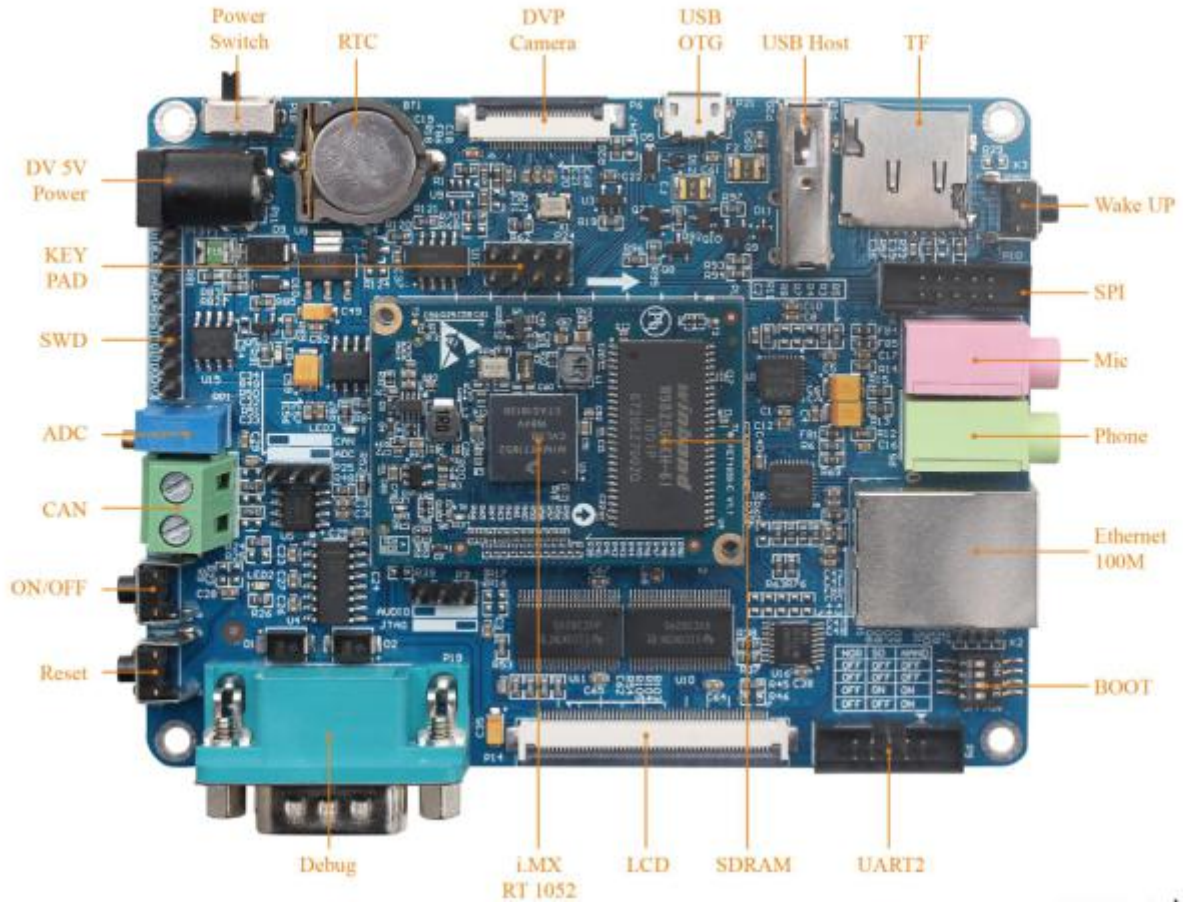
Name: Single board computer
Model: OK1052-C
CPU: i.MX RT1052
Architecture: Cortex-M7
RAM: 16MB/ 32MB SDRAM
Flash: 4MB/ 16MB QSPI NOR Flash
Main Frequency: 528MHz
OS: Bare metal, uCLinux

OK1052-C is a single board computer/ development board designed based on NXP Cortex-M7 crossover processor i.MX RT1052 belongs to i.MX RT1050 series MCU. It consists of carrier board and SoM.



SoM FET1052-C Features

CPU	Cortex-M7 i.MX RT1052@ 528MHz	UART	8-ch
CAN	2-ch	IIC	4-ch
RAM	SRAM: 512KB, SDRAM: 16MB/ 32MB	SPI	4-ch
Flash	QSPI NorFlash: 4MB/ 16MB	Camera	1-ch, DVP
OS	uCLinux, FreeRTOS, RT-Thread, Bare Metal	SD/ SDIO	2-ch
Voltage Input	5V	USB	2-ch
Working Temp	-40°C to +85°C	PWM	32-ch
Package	Board-to-board connector (2x 80-pin, 0.8mm)	SPDIF	1-ch
Dimensions	31mm* 43mm	SWD	1-ch
Display	1-ch, RGB	Keypad	1-ch, 8x 8
SAI	3-ch	ADC	20-ch
Ethernet	1-ch, 10/ 100Mbps auto-negotiation	QSPI	2-ch



OK1052-C Carrier Board Features

Display	1-ch, RGB	USB OTG	1-ch, USB2.0
Audio	1-ch for Phone, 1-ch for MIC	ADC	5-ch (4 for resistive touching, 1 is adjustable)
Ethernet	1-ch, 10/ 100Mbps auto-negotiation	PWM	1-ch, display backlight control
UART	1-ch, 3-wire	RTC	RX8010+ CR1220 cell
RS232	1-ch, debug	SWD	1-ch
CAN	1-ch	Key	Reset, wake up, power key
IIC	1-ch	DIP Switch	1-ch
SPI	1-ch	LED	1-ch
Camera	1-ch, DVP	Keypad	1-ch, 8x 8
TF Card	1-ch	EEPROM	1-ch, 256 bytes
USB Host	1-ch, USB2.0	Voltage	5V

Single Board Computer OK1061-S



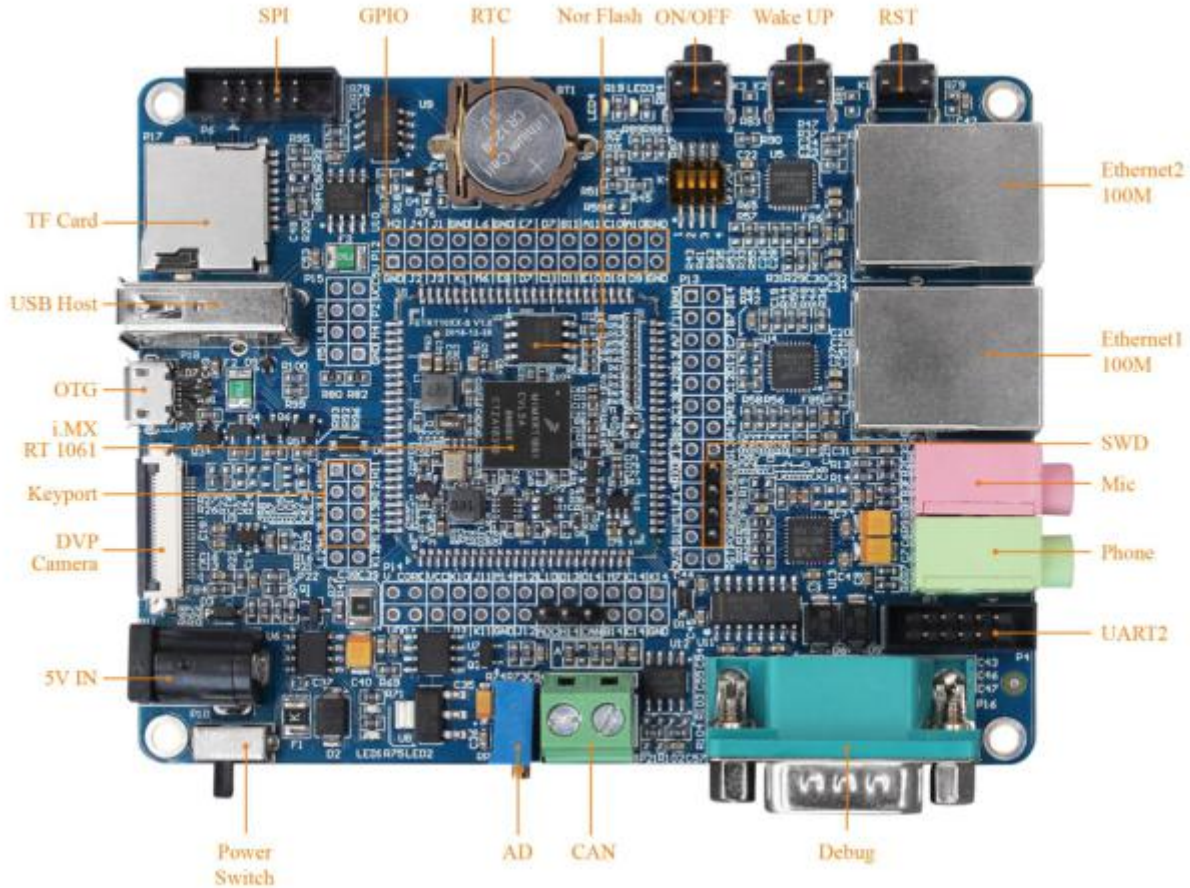
Name: Single board computer
Model: OK1061-S
CPU: i.MX RT1061
Architecture: Cortex-M7
RAM: 1MB SRAM
Flash: 4MB QSPI NOR Flash
Main Frequency: 528MHz
OS: Bare metal

OK1061-S is a single board computer designed based on NXP Cortex-M7 MCU i.MX RT1061@ 528MHz(commercial grade one 600MHz), it has on-chip SRAM up to 1MB, 512KB can be flexibly configured as TCM or general purposes on-chip RAM, and it can support QSPI-NOR Flash with capability of 4MB.



SoM FET1061-S Features

CPU	Cortex-M7 i.MX RT1061@ 528MHz	CAN	2-ch
SRAM	1MB	IIC	4-ch
Flash	QSPI NorFlash: 4MB/ 16MB	SPI	3-ch
USB	2-ch	SD/ SDIO	2-ch
OS	FreeRTOS, RT-Thread, Bare Metal	PWM	26-ch
Voltage Input	5V	SPDIF	1-ch
Working Temp	-40°C to +85°C	SWD	1-ch
Package	Edge soldering (4x 25-pin, 1.0mm)	Keypad	1-ch, 8x 8
Dimensions	30mm* 30mm	ADC	10-ch
SAI	2-ch	QSPI	1-ch
UART	7-ch	CAN FD	1-ch
Ethernet	2-ch, 10/ 100Mbps auto-negotiation	HS-GPIO	32-ch



OK1061-S Carrier Board Features

Audio	1-ch for Phone, 1-ch for MIC	ADC	5-ch (4 for resistive touching, 1 is adjustable)
Ethernet	2-ch, 10/ 100Mbps auto-negotiation	PWM	1-ch, display backlight control
UART	1-ch, 3-wire	RTC	RX8010+ CR1220 cell
RS232	1-ch, debug	SWD	1-ch
CAN	1-ch	Key	Reset, wake up, power key
IIC	1-ch	DIP Switch	1-ch
SPI	1-ch	LED	1-ch
Camera	1-ch, DVP, only for i.MX RT1052/ 1062	Keypad	1-ch, 4x 4
TF Card	1-ch	EEPROM	1-ch, 256 bytes
USB Host	1-ch, USB2.0	Voltage	5V
USB OTG	1-ch, USB2.0		

Single Board Computer OK1046A-C



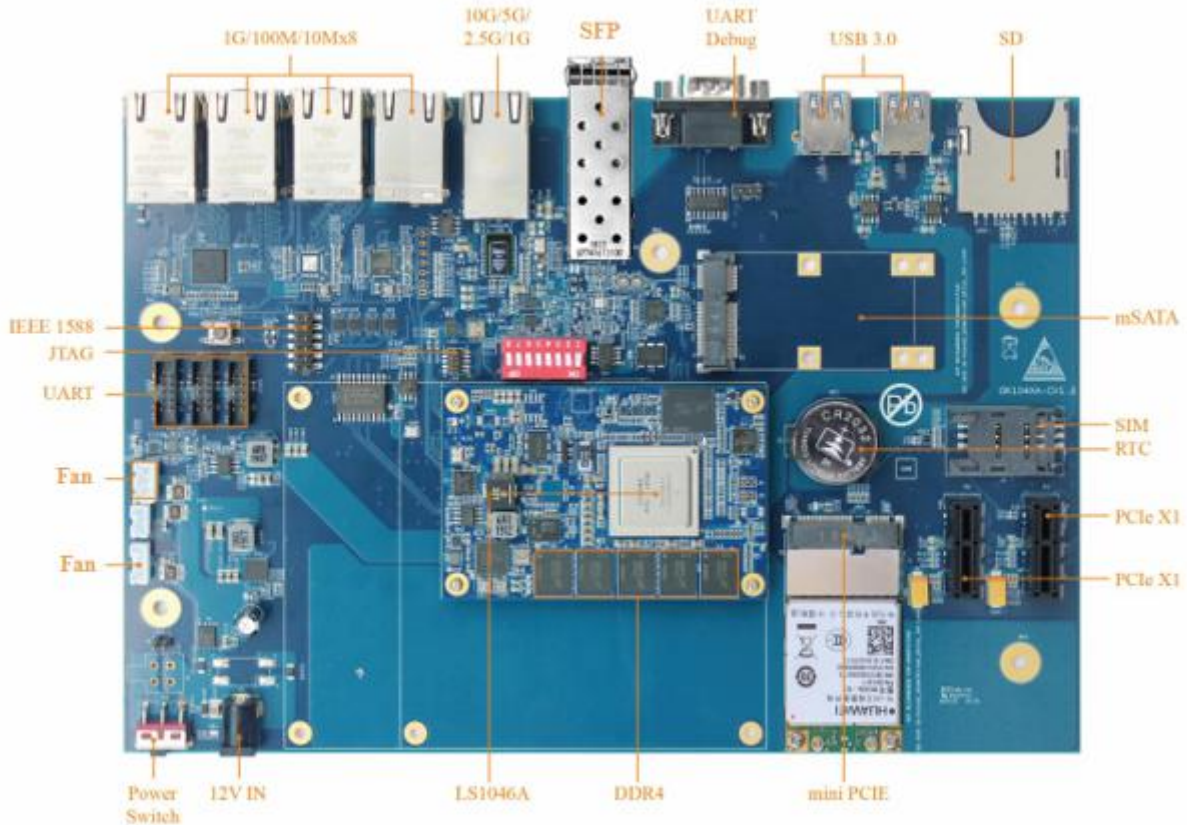
Name: Single board computer
Model: OK1046A-C
CPU: NXP LS1046A
Architecture: Cortex-A72
RAM: 2GB DDR4
Flash: 8GB eMMC+ 16MB SQPI NOR Flash
Main Frequency: 1.8GHz
OS: Ubuntu, Linux OpenWRT

OK1046A-C is a single board computer(also called development board or demo board) consists of SoM FET1046A-C and carrier board, and it's designed based NXP Cortex-A72 featuring quad-core processor LS1046A with frequency up to 1.7GHz , can support up to 2 10Gb Ethernet or 2 XFI interface and 8 Gigabit Ethernet interface, it has PCIe3.0, SATA3.0, USB3.0, UART, IIC and other peripherals ready-to-use and supports both Ubuntu and OpenWRT, can support docker and other virtual technology, with built-in hardware packet accelerator. It is applicable for router, IoT gateway, edge computing, information security gateway, new type virtual network system, etc.



Basic information of SoM FET1046A-C

CPU	NXP LS1046A	Dimensions	84mm x 55mm
Architecture	Cortex-A72, quad-core	Ethernet	≤8-ch, up to 1x 10Gbps and 7x 1000Mbps
Frequency	≤1.8GHz	PCIe3.0	≤3-ch, configured by SerDes, up to 5Gbps
RAM	2GB DDR4	Flash	8GB eMMC+ 16MB QSPI NOR Flash
SATA3.0	≤1, configured by SerDes, up to 6Gbps	USB3.0	≤3, up to 5Gbps
OS	Ubuntu18.041/ OpenWRT v18.06.0-rc2	UART	≤6-ch, up to 2x DUART or 6x UART
Voltage Input	12V	IIC	≤3-ch
Working Temp Width	0°C to +80°C / -40°C to +80°C	eSDHC	≤1-ch, SD3.0 eMMC4.5 multiplexed with eMMC, can be used for card booting or flash OS, but can not used for memory expanding
Package	COM Express (220 pins, 0.5mm pitch)	JTAG	NXP CodeWarrior TAP is supported
SerDes	8 SerDes channels are available for high-speed peripherals expanding 1x SATA3.0, up to 3x SGMII 2500Mbit/s, 1x QSGMII, 3x PCIe3.0, 5x DGMII 1000Mbit/s, 2x XFI(10GbE)		



OK1046A-C Carrier Board Features

Peripheral	QTY	Spec.
10Gbps Ethernet	1	Up to 10Gbps. 10G/ 5G/ 2.5G/ 1G/ 100Mbps auto-negotiation
1Gbps Ethernet	8	Each up to 1Gbps, 1G/ 100M/ 1000Mbps auto-negotiation, 4-ch expanded by QSGMII, 2-ch expanded by RGMII, and 2-ch expanded by SGMII
Mini PCIe	1	Up to 5Gbps, can be mounted with 4G wireless module
XFI	1	Up to 10Gbps
MSATA	1	Up to 6Gbps
PCIe X1	2	Up to 5Gbps
USB3.0	2	Up to 5Gbps
UART	4	3x TTL, 1x debug
SD	1	Multiplexed with eMMC

Single Board Computer OK1043A-C



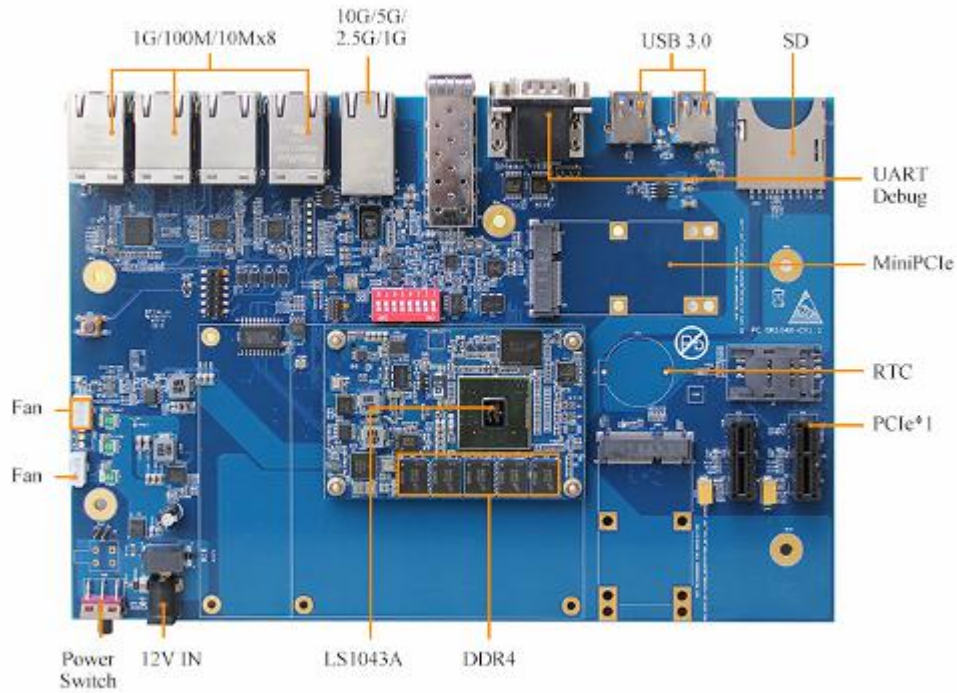
Name: Single board computer
Model: OK1043A-C
CPU: NXP LS1043A
Architecture: Cortex-A53
RAM: 2GB DDR4
Flash: 8GB eMMC+ 16MB SQPI NOR Flash
Main Frequency: 1.6GHz
OS: Ubuntu, Linux OpenWRT

OK1043A-C is a single board computer(also called development board or demo board) consists of SoM FET1043A-C and carrier board, and it's designed based NXP Cortex-A53 featuring quad-core processor LS1043A with frequency up to 1.6GHz has 7 native Ethernet interface(1x 10Gbps and 6x 1000Mbps), it has PCIe2.0, SATA3.0, USB3.0, UART, IIC and other peripherals ready-to-use and supports both Ubuntu and OpenWRT. It is applicable for router, IoT gateway, IP-PBX and other similar products, and fields such as edge computing, energy related gateway, smart city, industrial automation, video surveillance, etc.



SoM FET1043A-C Features

CPU	NXP LS1043A	Dimensions	84mm x 55mm
Architecture	Cortex-A53, quad-core	Ethernet	≤7-ch, up to 1x 10Gbps and 6x 1000Mbps, CPU has 7 native MAC
Frequency	≤1.6GHz	PCIe3.0	≤3-ch, configured by SerDes, up to 5Gbps
RAM	2GB DDR4	Flash	8GB eMMC+ 16MB QSPI NOR Flash
SATA3.0	≤1, configured by SerDes, up to 6Gbps	USB3.0	≤3, up to 5Gbps
OS	Ubuntu18.041/ OpenWRT v18.06.0-rc2	UART	≤6-ch, up to 2x DUART or 6x UART
Voltage Input	12V	IIC	≤3-ch
Working Temp Width	-40°C to +80°C	eSDHC	≤1-ch, SD3.0 eMMC4.5 multiplexed with eMMC, can be used for card booting or flash OS, but can not used for memory expanding
Package	COM Express (220 pins, 0.5mm pitch)	JTAG	NXP CodeWarrior TAP is supported
SerDes	4 SerDes channels are available for high-speed peripherals expanding 1x SATA3.0, up to 2x SGMII 2500Mbit/s, 1x QSGMII, 3x PCIe3.0, 4x DGMII 1000Mbit/s, 1x XFI(10GbE)		



OK1043A-C Carrier Board Features

Peripheral	QTY	Spec.
10Gbps Ethernet	1	Up to 10Gbps. 10G/ 5G/ 2.5G/ 1G/ 100Mbps auto-negotiation
1Gbps Ethernet	6	Each up to 1Gbps, 1G/ 100M/ 1000Mbps auto-negotiation, 4-ch expanded by QSGMII, 2-ch expanded by RGMII
Mini PCIe	1	Up to 5Gbps, can be mounted with 4G wireless module
PCIe X1	1	Up to 5Gbps
USB3.0	2	Up to 5Gbps
UART	4	3x TTL, 1x debug
SD	1	Multiplexed with eMMC

Single Board Computer OK1012A-C



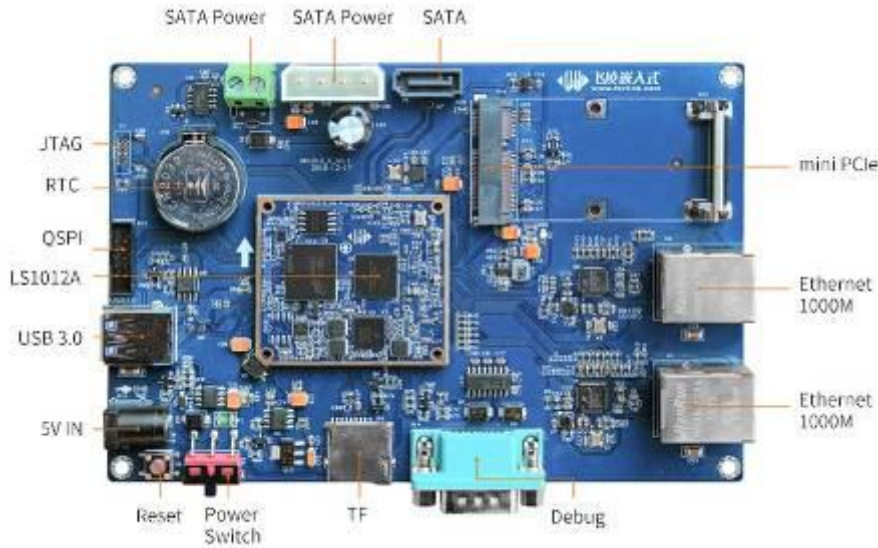
Name: Single board computer
Model: OK1012A-C
CPU: NXP LS1012A
Architecture: Cortex-A53
RAM: 512MB DDR3L
Flash: 8GB eMMC+ 16MB SQPI NOR Flash
Main Frequency: 800MHz
OS: Ubuntu, Linux OpenWRT

OK1012A-C is a single board computer/ development board designed based on NXP Cortex-A53 featuring processor LS1012A@ 800MHz. It consists of carrier board and SoM and integrates with multiple high-speed peripherals include dual gigabit Ethernet PHYs with hardware packet acceleration engine, SATA3.0, PCIe2.0, USB3.0, TF card and other interfaces. It's specially supported with Ubuntu and OpenWRT and aiming at NAS, IoT gateway, broadband Ethernet gateway and industrial automation markets.



SoM FET1012A-C Features

CPU	NXP LS1012A	Ethernet	≤2-ch
Architecture	Cortex-A53	PCIe2.0	≤1-ch
Frequency	≤1.0GHz	SATA3.0	≤1-ch
RAM	512MB DDR3L	Flash	8GB eMMC+ 16MB QSPI NOR Flash
USB3.0	1-ch	QSPI	1-ch
OS	Ubuntu18.041/ OpenWRT v18.06.0-rc2	SAI	≤5-ch
Voltage Input	4.2V	IIC	≤2-ch
Working Temp Width	-40°C to +80°C	UART	≤2-ch
Package	Board-to-board connector	SDHC	≤2-ch
Dimensions	45mm x 40mm	JTAG	NXP CodeWarrior TAP is supported



OK1012A-C Carrier Board Features

Peripherals	QTY	Spec.
Ethernet	≤2	1x RGMII, up to 1Gbps, can be configured to 2 SGMII up to 2.5Gbps by SerDes, 2 native MAC for 2 Ethernet ports
PCIe2.0	≤1	Up to 5Gbps
SATA3.0	≤1	Can support Ethernet module and WLE900VX dual-band WIFI module up to 6Gbps
QSPI	1	Nor Flash on SoM FET1012A-C
SAI	≤5	Audio
UART	≤2	
IIC	≤2	
SDHC	≤2	One for eMMC
JTAG	1	NXP CodeWarrior TAP is supported

Single Board Computer OK5718-C



Name: Single board computer

Model: OK5718-C

CPU: TI AM5718

Architecture: Cortex-A15+ DSP+ PRU+ Cortex-M4

RAM: 1GB DDR3L

Flash: 8GB eMMC

Frequency: 1.5GHz+ 750MHz+ 200MHz+ 213MHz

OS: Linux, Win CE, Android



Front of SoM FET5718-C



Back of SoM FET5718-C

SoM FET5718-C Features

CPU	TI Sitara AM5718	CAN	2-ch
Architecture	Cortex-A15-1.5GHz DSP C66X-750MHz 2x dual-core Cortex-M4-213MHz 2x dual-core PRU-200MHz	IIC	5-ch
RAM	1GB DDR3L+ ECC	Flash Memory	8GB eMMC
SPI	4-ch	GPMC	16-bit data bus, 28-bit address bus
OS	Linux4.9.41+ QT5.6	Camera	4-ch DVP, 2-ch MIPI-CSI
Voltage Input	5V	SD/ MMC/ SDIO	4-ch
Working Temp	-40°C to +85°C	USB	1-ch USB3.0 Host, 1-ch USB2.0 OTG
Package	Board-to-board connector (4x 80-pin, 0.5mm)	SATA	1-ch
Dimensions	50mm x70mm	Mini PCIe	1-ch 2-lane or 2-ch 1-lane
PMU	TPS65916	PWM	3-ch
GPU	Vivante GC320/ PowerVR SGX544	EINT/ GPIO	supported
Video Codec	Hardware codec	Keypad	1-ch, 9x 9
Display	3-ch RGB, 1-ch HDMI	QSPI	1-ch
IIS	8-ch	eCAP	3-ch
Ethernet	2-ch, RGMII	HDQ/ 1-wire	1-ch
UART	10-ch	Temp Sensor	Digital temp sensor



OK5718-C Carrier Board Features

Display	1-ch RGB, 1-ch HDMI	SATA	1-ch
Audio	1-ch Phone, 1-ch MIC, 2-ch Speaker	Mini PCIe	1-ch
Ethernet	2-ch, 10/ 100/ 1000Mbps, auto-negotiation	WiFi& BT	1-ch
UART	3-ch (2x 5-wire, 1x 3-wire)	PWM	1-ch
RS232	2-ch (1x RS232, 1x debug)	RTC	RX8010
IIC	2-ch	JTAG	1-ch
SPI	2-ch (1x SPI, 1x QSPI)	EINT/ GPIO	Up to 54-ch
GPMC	16-bit, data and address bus are multiplexed	Key	5-ch (reset, wake up, 3x user key)
Camera	3-ch (1x DVP, 2x MIPI-CSI)	DIP Switch	2-bit
SD/ MMC/ SDIO	2-ch (1x SD, 1x SDIO)	LED	4-ch (power indicator, over-voltage indicator, 2x LED)
USB Host	3-ch(1x USB3.0, 2x USB2.0)	Voltage Input	DC12V
USB OTG	1-ch USB2.0, multiplexed with USB host		

Single Board Computer OK335xD



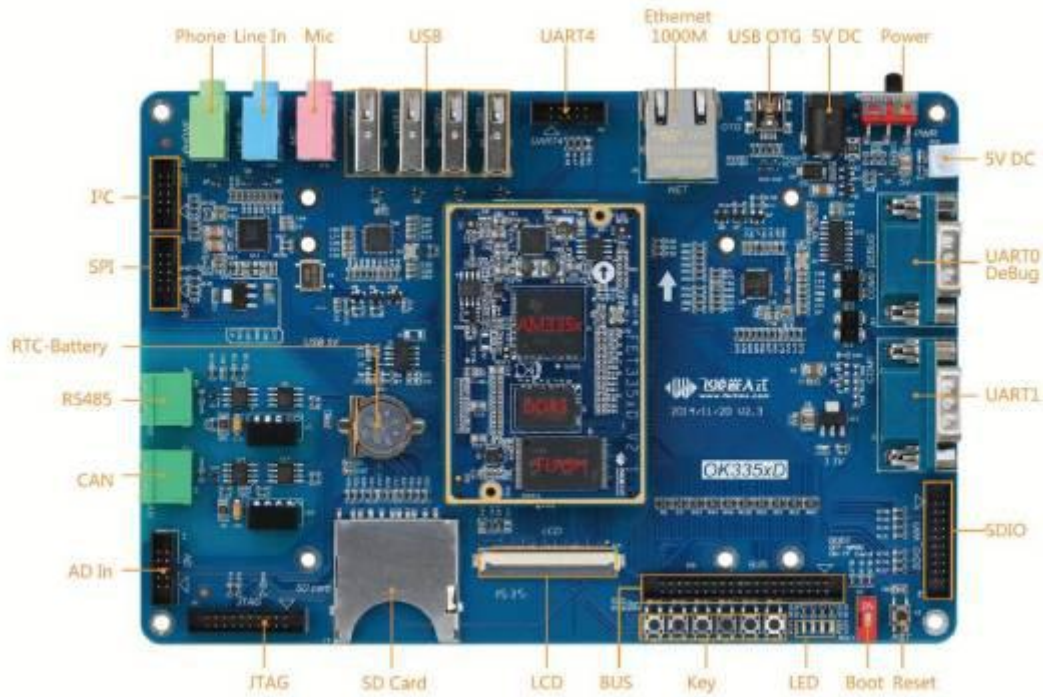
Name: Single board computer
Model: OK335xD
CPU: TI AM3354
Architecture: Cortex-A8
RAM: 512M DDR3
Flash: 256M NandFlash
Main Frequency: 800MHz
OS: Linux, Win CE, Android

TI AM335x microprocessors is a simple and stable industrial development platform with main frequency up to 800MHz, operating temperature ranges from -40°C to +85°C.



FET335xD SoM Features

CPU	TI Sitara AM335x Cortex-A8 processor	I2C	3-ch
Architecture	ARMv7 Cortex-A8	SPI	2-ch
Main Frequency	800MHz	CAN	2-ch
RAM	512M DDR3	USB HOST	1-ch USB HOST 2.0
FLASH	256M SLC Nandflash	USB DEVICE	1-ch USB DEVICE 2.0
Input voltage	5V	SD/MMC/SDIO	3-ch MMC
2D/3D	Supported	Ethernet	2-ch Gigabit Ethernet
GPU	PowerVRSGX530	UART/IrDA	6-ch
Hardware Watchdog	SP706SEN	EINT/GPIO	Supported
PMU	TPS65217C	ADC	8-ch
Size	46mm*70mm	Video Codec	Software codec
Connection method	Pin connector	EBI	16-bit data bus, 12-bit address bus
OS	Linux/Android//WinCE/Starter Ware	JTAG	1-ch
LCD	RGB16-bit	EEPROM	Support (Only for Encryption)
Audio	IIS interface	PWM	1-ch (For backlight)



OK335xD Carrier Board Features

Audio	3-ch(1-ch phone,1-ch MIC,1-ch speaker)	JTAG	1-ch
CAN	1-ch(With isolation protection)	RTC	Supported
RS485	1-ch (With isolation protection)	User key	6
SD/MMC/SDIO	2-ch(1-ch SDIO WIFI,1-ch SD card slot)	Reset	1
Serial	3-ch (2-ch RS232, 1-ch TTL)	PWM	1-ch(For LCD backlight)
Input Voltage	5V	LED	4-ch
EBI	Support 12 bit address bus,16 bit data bus	USB HOST	4-ch, USB 2.0
Boot	Set to boot from Nand Flash or SD card	SPI	1-ch
LCD	1-ch, support resistive, capacitive touch screen; support LCD to VGA module	GPIO	More than 20-ch
ADC	8-ch, in which 4-ch for resistive touch, 4-ch for self definition by users.	LVDS	Supported
SATA	Support to connect with USB to SATA module	USB DEVICE	1-ch, USB 2.0
GPS	Support to connect with external GPS module	Ethernet	1-ch Gigabit Ethernet port
3G	Support external AD3812 module(USB)	I2C	2-ch

Single Board Computer OK335xS



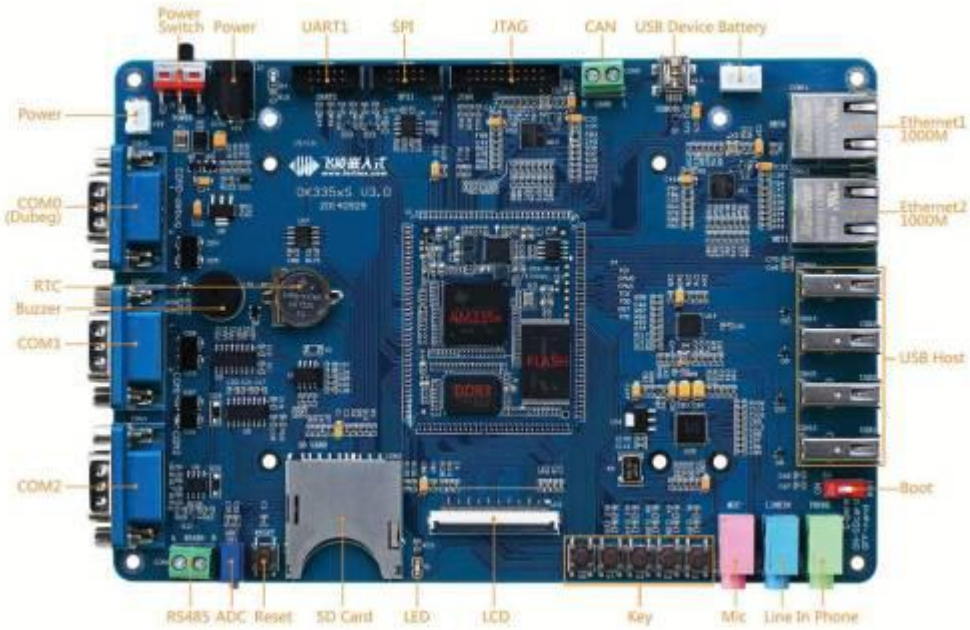
Name: Single board computer with dual Ethernet
Model: OK335xS
CPU: TI AM3354
Architecture: Cortex-A8
RAM: 512M DDR3
Flash: 256M SLC Nand Flash
Main Frequency: 800MHz
OS: Linux, Win CE, Android

OK335xS single board computer is with dual Ethernet ports which is also based on TI AM335x processor and with industrial grade working temp. It is with main frequency reaches up to 800MHz, and with 512M DDR3 RAM and 256M Nand flash.



FET335xS Industrial CPU Module Features

CPU	TI Sitara AM3354@ 800MHz	I2C	3-ch
Architecture	ARMv7 Cortex-A8	SPI	2-ch
Audio	IIS interface	CAN	1-ch
RAM	512M DDR3	USB HOST	1-ch USB HOST 2.0
FLASH	256M SLC Nand Flash	USB DEVICE	1-ch USB DEVICE 2.0
Temp Range	-40°C~+85°C	SD/MMC/SDIO	3-ch MMC
Humidity	10-90%(Non-condensation)	Ethernet	2-ch Gb Ethernet port
Input Voltage	5V	UART/IrDA	6-ch
2D/3D	Supported	EINT/GPIO	More than 20-ch
GPU	PowerVRSGX530	ADC	7-ch
PMU	TPS65217C	Video Encoder	Software codec
Size	52mm*42mm	JTAG	1-ch
Connection Type	Pin connector	EEPROM	Supported (Only for Encryption)
OS	Linux/ Android// WinCE/ Starter Ware	PWM	2-ch (1-ch for backlight)
LCD	RGB24-bit	SATA	None(Support USB to SATA)



OK335xS Carrier Board Features

Audio	3-ch(1-ch phone,1-ch MIC,1-ch line in)	JTAG	1-ch
I2C	1-ch	User key	5
SPI	1-ch	Boot switch	Set to boot from Nandflash or SD card
CAN	1-ch	Reset	1
RS485	1-ch,multiplexed with Profibus	LED	1-ch
SD/MMC/SDIO	1-ch SD card	GPIO	More than 20-ch
USB HOST	4-ch, support USB 2.0 protocol	RTC	Support
USB DEVICE	1-ch, support USB 2.0 protocol	Ethernet	2-ch gigabit Ethernet port
Input Voltage	5V	UART	4-ch (3-ch RS232, 1-ch TTL)
PWM	2-ch(1-ch is for LCD backlight,1-ch is for buzzer)	3G	Support external AD3812 module(USB)
SATA	Support to connect with USB to SATA module	GPS	Support to connect with external GPS module
LCD	1-ch, support resistive, capacitive touch screen; support LCD to VGA module, LCD to LVDS module	ADC	5-ch (4-ch is for resistive touch, 1-ch is for slide rheostat)

Single Board Computer OK335xS-II



Name: Single board computer
Model: OK335xS-II
CPU: TI AM3354
Architecture: Cortex-A8
RAM: 128M DDR3
Flash: 256M SLC Nand Flash
Main Frequency: 600MHz
OS: Linux, Win CE

Same as other OK335x series single board computer, OK335xS –II is also based on TI Sitara AM335x processor with the advantages of high efficient processing capacity, with low consumption and highly integrated peripherals, advanced graphic controller and RTC function.



FET335xS-II Industrial CPU Module Features

CPU	TI Sitara AM3354@ 600MHz	I2C	3-ch
Architecture	ARMv7 Cortex-A8	SPI	2-ch
PWM	3-ch	CAN	2-ch
RAM	128M DDR3	USB HOST	1-ch USB HOST 2.0
FLASH	256M SLC Nand Flash	USB DEVICE	1-ch USB DEVICE 2.0
Temp Range	-40°C~+85°C	SD/MMC/SDIO	3-ch MMC
Humidity	10%~90%	Ethernet	2-ch Gb Ethernet port
Input Voltage	5V	UART/IrDA	6-ch
GPU	Power VRSGX530	EINT/GPIO	Support
PMU	TPS650250	ADC	7-ch
Size	52mm*42mm*2.6mm	Video Codec	Software codec
Connection Type	Stamp hole	JTAG	1-ch
OS	Linux3.2 WinCE6.0	EEPROM	Support (Only for Encryption)
LCD	RGB16bit	Audio	IIS interface
2D/3D	Support 2D/3D graphics acceleration	SATA	Support USB to SATA module



OK335xS-II Industrial Carrier Board Features

I2C	1-ch	RTC	Support
SPI	1-ch	User key	3
RS485	1-ch	Reset	1
SD/MMC/SDIO	1-ch SD card	PWM	3-ch
USB HOST	4-ch, support USB 2.0 protocol	LED	2-ch
USB DEVICE	1-ch, support USB 2.0 protocol	GPIO	Many, multiplexed with other pins
Ethernet	1-ch 100M Ethernet port	LVDS	Support
Input Voltage	5V	Serial	4-ch (1-ch is for debugging,3-ch LVCOMS)
LCD	1-ch, support resistive, capacitive touch screen; support LCD to VGA module	ADC	7-ch, (2-ch is for self definition, 1-ch is for slide rheostat,4-ch is for resistive touch)
CAN	2-ch (CAN transceiver is not on the board, only can bus here)	Boot switch	Set to boot from Nandflash or SD card
SATA	Support to connect with USB to SATA module	GPS	Support to connect with external GPS module
3G	Support to connect with external AD3812 module(USB)		

Single Board Computer OKxx18-C



Name: Single board computer
Model: OK4418-C/ OK6818-C
CPU: S5P4418, S5P6818
Architecture: Cortex-A9
RAM: 1G DDR3
Flash: 8GB eMMC
Main Frequency: 1.4GHz
OS: Android5.1.1, Linux3.4.39

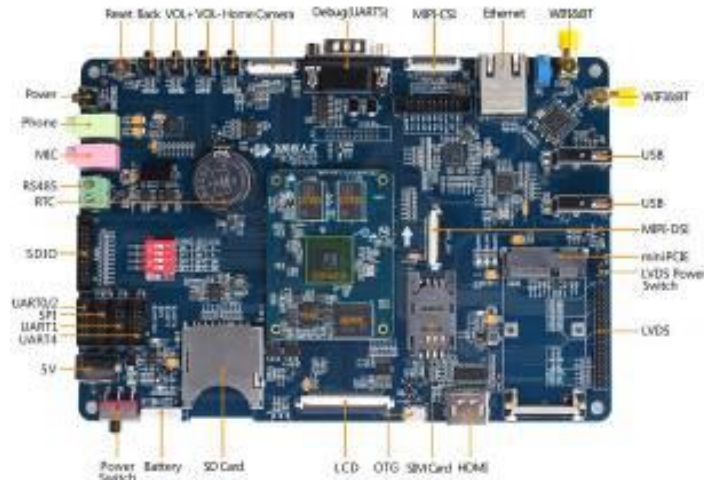
OK4418-C single board computer is a Cortex-A9 quad-core development kit with main frequency of 1.4GHz, 1G DDR3 and 8G eMMC, on-board SPI, RS485, CAN, UART, LVDS, HDMI, MIPI, Gigabit Ethernet are all ready-to-use for developers.



SoM FETxx18-C Features

CPU	Samsung S5P4418/ S5P6818	IIS	3-ch
Architecture	S5P4418, Cortex-A9 S5P6818, Cortex-A53	Ethernet	1-ch, 10/ 100/ 1000Mbps, auto-negotiation
Frequency	1.4GHz	UART	6-ch
RAM	1GB DDR3 (2GB optional)	IIC	3-ch
FLASH	8GB eMMC	SPI	3-ch
Working Temp	0°C-+70 °C (tested -20°C-+70 °C)	SD/MMC/SDIO	2-ch
OS	Android5.1.1, Linux3.4.39+ QT5.6/ QT4.8.6 Linux4.4.83+ QT5.6	MCU-S	16-bit data bus, 17-bit address bus
Input Voltage	4.2V	Camera	3-ch (2x DVP, 1x MIPI-CSI)
Package	Board-to-board connector(4x 80-pin, 0.5mm)	USB	1-ch USB2.0 Host, 1-ch USB2.0 OTG
Dimensions	60x 45mm	PWM	4-ch
PMU	NXE2000	SPDIF	1-ch
GPU	Mali400	JTAG	1-ch
Video Codec	Hardware codec	EINT/ GPIO	Supported
Display	1-ch RGB888, 1-ch LVDS, 1-ch HDMI, 1-ch MIPI-DSI	ADC	7-ch

Pin diagrams



OKxx18-C Carrier Board Features

Display	1-ch RGB888, 1-ch LVDS, 1-ch HDMI, 1-ch MIPI-DSI	USB OTG	1-ch, USB2.0
Audio	1-ch phone, 1-ch MIC	Mini PCIe	1-ch, USB 3G/ 4G wireless module
Ethernet	1-ch, 10/ 100/ 1000Mbps, auto-negotiation	WIFI& BT	1-ch
UART	4-ch(3x 3-wire, 1x 5-wire)	ADC	1-ch
RS232	1-ch, debug	IrDA	1-ch(empty soldered)
RS485	1-ch (isolated)	RTC	1-ch
IIC	3-ch	Key	6-ch
SPI	1-ch	DIP	Booting mode selection
Camera	2-ch (1x DVP, 1x MIPI-CSI)	Li-battery	1-ch
SD/ MMC/ SDIO	2-ch (1x SD, 1x SDIO)	Voltage Input	5V
USB Host	2-ch, USB2.0		

Single Board Computer OKXX18-C2



OKxx18-C2 Carrier Board Features

Display	1-ch RGB888, 1-ch LVDS, 1-ch HDMI, 1-ch MIPI-DSI	USB OTG	1-ch, USB2.0
Audio	1-ch phone, 1-ch MIC	Mini PCIE	1-ch, USB 3G/ 4G wireless module
Ethernet	1-ch, 10/ 100/ 1000Mbps, auto-negotiation	WIFI& BT	1-ch
UART	2-ch	ADC	1-ch
RS232	1-ch, debug	IrDA	1-ch(empty soldered)
RS485	1-ch (isolated)	RTC	1-ch
IIC	2-ch	Key	6-ch(reset, wake up, 4x functional key)
Camera	1-ch MIPI-CSI	DIP	Booting mode selection
Parallel Bus	16-bit data bus, 16-bit address bus	Li-battery	1-ch
SD/ MMC/ SDIO	1-ch	Voltage Input	5V
USB Host	2-ch, USB2.0	NorFlash	1-ch, 32MB or 256Mb

Single Board Computer OKA40i-C



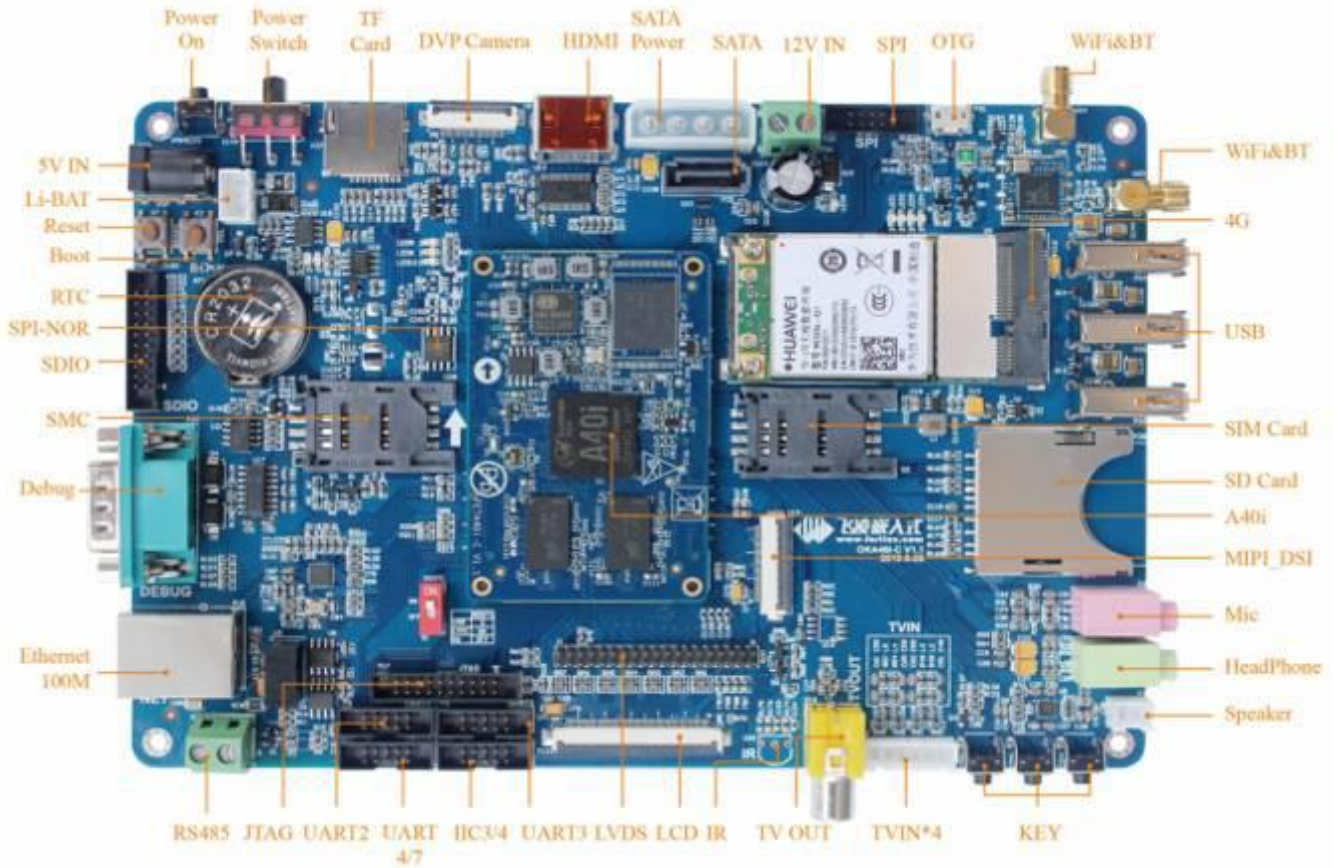
Name: Single board computer
Model: OKA40i-C
CPU: Allwinner A40i (quad-core)
Architecture: Cortex-A7
RAM: 1GB DDR3L (2GB optional)
Flash: 8GB eMMC
Main Frequency: 1.2GHz
OS: Linux3.10+ QT5.9, Android7.1

OKA40i-C is designed based on Allwinner Cortex-A7 featuring quad-core processor A40i with frequency up to 1.2GHz and consists of SoM FETA40i-C and carrier board, GPU Mali400MP2, LVDS, RGB, MIPI-DSI, HDMI, TVOUT, DVP camera, TVIN peripherals for display and camera are all available and supported up to 1080P, other interfaces like UART, USB2.0, SPI, SATA and Gigabit Ethernet are also available.



SoM FETA40i-C Features

CPU	Allwinner A40i (quad-core)	UART	8-ch
Architecture	Cortex-A7	IIC	5-ch
Frequency	1.2GHz	SPI	4-ch
RAM	1GB DDR3L (2GB optional)	Camera	2-ch DVP, 4-ch TVIN
FLASH	8GB eMMC	SD/MMC/SDIO	4-ch
OS	Linux3.10+ QT5.9, Android7.1	USB	2-ch USB2.0 host, 1-ch USB2.0 OTG
Voltage Input	5V	SATA	1-ch
Working Temp	-20°C~ +85°C/ -40°C~ +85°C	PWM	8-ch
Package	Board-to-board connector (4x 80-pin)	Audio Codec	1-ch
Dimensions	45x 68mm	JTAG	1-ch
PMU	AXP221S	Keypad	1-ch
GPU	Mali400MP2	KeyADC	2-ch
Video Codec	Hardware video codec	SMC	2-ch
Display	2-ch RGB888, 2-ch 8-bit LVDS, 1-ch HDMI, 1-ch MIPI, 4-ch TVOUT	PS2	2-ch
IIS/ PCM	2-ch	CIR	2-ch
Ethernet	1-ch 10/ 100Mbps auto-negotiation 1-ch 10/ 100/ 1000Mbps auto-negotiation	AC97	1-ch



OKA40i-C Carrier Board Features

Display	1-ch RGB888, 1-ch 8-bit LVDS, 1-ch HDMI, 1-ch MIPI, 1-ch TVOUT	SATA	1-ch
Audio	1-ch MIC, 1-ch Phone, 1-ch Speaker	WIFI& BT	1-ch
Ethernet	1-ch 10/ 100/ 1000Mbps auto-negotiation	JTAG	1-ch
UART	4-ch (2x 5-wire, 2x 3-wire)	RS485	1-ch, isolated
RS232	1-ch, debug	3G/ 4G	1-ch
IIC	4-ch	LED	2-ch
SPI	2-ch	PWM	1-ch
Camera	1-ch DVP, 4-ch TVIN	RTP	4-ch
SD/ MMC/ SDIO	2-ch, SD card, 1-ch SDIO	SMART Card	1-ch
USB Host	3-ch, USB2.0	Key	3-ch
USB OTG	1-ch, USB2.0	RTC	1-ch

Embedded Computer FCU1101 for Gateway Solution



Name: Embedded computer
Model: FCU1101
SoM: FETMX6UL-C2
Architecture: Cortex-A7
RAM: 256MB LvDDR3
Flash: 256MB/ 1GB NAND Flash
Main Frequency: 528MHz
OS: Linux

FCU1101 is an embedded computer designed based on NXP i.MX6UL processor with frequency of 528MHz, it has 256MB RAM and 256MB NAND Flash which could be upgraded to 1GB. Linux 3.14 is well supported with hardware float pointing. Prepherial interfaces such as RS485, Ethernet, WIFI, 4G, ZigBee/ LoRa are all available. It has stable performance under rough environment(-35°C to +70°C)

FCU1101 Features

CPU	NXP i.MX6UltraLite, Cortex-A7, 528MHz	RTC	CR2032, power failure latency at least one year, supports NTP
RAM	256M LvDDR3	Encryption	IIC, on-board encryption chip, empty soldered
Flash	256M NAND Flash(1GB expandable)	Watchdog	For reset time setting
TF card	For memory expanding, tested up to 32GB	LED	Power indicator, system status indicator
GSM	4G: EC20	ZigBee/ LoRa	ZigBee model: WLT2408NZ LoRa model: E32-TTL-100, 433MHz LoRa and ZigBee are optional modules
Ethernet	1-ch, 10/ 100Mbps auto-negotiation, protocol: TCP/ IP, UDP, DHCP, TFTP, FTP, Telnet, SSH, Web, HTTP, MQTT	RS485	4-ch, with 1.5KV isolation protection, ESD4, supported with Modbus(RTU)
WIFI	RL-UM02WBS-8723BU, can support STA, AP	Power IN	DC12V input, available for DC9V to 36V, designed with anti-reverse and over-current protection circuit
Reset	1-ch, for system resetting	Dimensions	105mm x 100mm x 33mm
Boot key	Boot mode selection: NAND Flash /SD card	Mounting	Mounting hole with screw
Environment	RM: 5% to 95%, non-condensing Working temp: -35°C to +70°C; Storage temp: -40°C to +85°C	OS	Linux3.14, file system: Yaffs2, compiler: arm-fsl-linux-gnueabi-gcc-4.6.2



Embedded Computer FCU1201



Name: Embedded computer
Model: FCU1201
SoM: FETMX6DL-C
Architecture: Cortex-A9
RAM: 1GB DDR3
Flash: 8GB eMMC
Main Frequency: 1GHz
OS: Linux3.0.35

FCU1201 Features

CPU	NXP i.MX6DualLite, Cortex-A9, 1GHz	HDMI	Mini HDMI connector, HDMI v1.4
RAM	1GB DDR3	Power Failure	Status monitored by CPU, super capacitor can support system running at least 15s in power failure
Flash	8GB eMMC	UART	2-ch (1x 3-wire for debug, 1x 3-wire for reader)
TF card	For memory expanding, tested up to 64GB	RS485	2-ch, with electrical isolation
GSM	4G: ME909S	USB	1-ch USB OTG, 1-ch USB Host
ESAM	ISO7816, analog by IO	CAN	2-ch, with electrical isolation
PSAM	With mini SIM card slot	Ethernet	1-ch, 10/ 100/ 1000Mbps auto-negotiation
DO	4-ch, with relay isolation	WIFI& BT	IEEE802.11b/ g/ n 1T1R WLAN BT2.1/ 3.0/ 4.0
DI	4-ch, photo coupler isolation	RTC	CR2032, power failure latency at least one year
Audio	1-ch headphone, 1-ch MIC, preserved with 2-ch for speaker	Power IN	DC12V input, available for DC9V to 36V, designed with anti-reverse and over-current protection circuit
LVDS	DVI-I connector	OS	Linux3.0.35
Dimensions	147x 103x 42mm	Mounting	4x Φ4mm screws

