



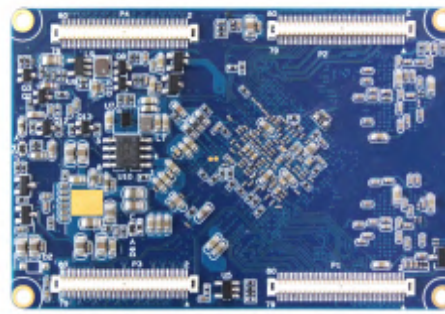
FET3399-C SoM

DESCRIPTION



FET3399-C system on module comes from Rockchip RK3399 processor consists of two Cortex-A72 cores up to 1.8GHz and four Cortex-A53 cores up to 1.4GHz. It's integrated with GPU Mali-T864, can support OpenGL ES1.1/ 2.0/ 3.0/ 3.1, OpenVG1.1, OpenCL and DX11. It has on-board 2GB LPDDR3 RAM and 16GB eMMC. A variety of display interfaces such as HDMI2.0, MIPI-DSI, eDP1.3 and DP1.2 are all available up to 4K. Dual-screen both synchronous and asynchronous playing are well supported. Besides, it carries PCIe, USB3.0 Host, Type-C, MIPI-CSI, SPDIF, IIC, SPI, UART, ADC, PWM, GPIO, IIS(8 digital microphone array input) and Ethernet on board.

SoM FET3399-C Features			
CPU	Rockchip RK3399	IIS/PCM	3
Architecture	2x Cortex-A72@1.8GHz 4x Cortex-A53@1.4GHz	SD/MMC	2, SD/MMC/SDIO3.0
RAM	2GB / 4GB LPDDR3	PCIe	1, PCIe2.0 x4
ROM	16GB / 32GB eMMC	USB 2.0	2, USB Host2.0
OS	Linux 4.4, Android7.1, ForlinxDesktop 18.04	USB Type-C	2, USB 3.0/2.0, DP1.3
Voltage input	12V	Ethernet	1, RGMII/ MII
Working Temp	0°C ~ +80°C	SPI	5
Package	4x 80-pin connector, 0.5mm	UART	5
Dimensions	46mm x 70mm	IIC	7
GPU	Mali-T860MP4	PWM	3, 32-bit
Camera	2x MIPI-CSI, one 13.0MP camera or two 8.0MP cameras	ADC	5, 10-bit
Video Coder	Decode: • H.265/HEVC up to 4Kx2K @ 60fps; • VP9 up to 4Kx2K @ 60fps • H.264/AVC up to 4Kx2K @ 30fps Encode: • 1080p30 AVC/H.264 • 1080p30 VP8	Display	dual display engines up to 4096x2160 and 2560x1600 by below interface: • 2x MIPI-DSI, up to 2560x1600@60fps; • 1x eDP1.3, supports 4 data lanes; • 1x DP1.2, up to 4Kx2K@60Hz; • 1x HDMI2.0, up to 4Kx2K@60Hz



OK3399-C Carrier Board Features

HDMI	1, 4K@60Hz	TF Card	1
MIPI-DSI	1x 4-lane	Ethernet	1x 10/100/1000Mbps, RJ45 connector
eDP	1x 4-wire, 10.8Gbps	Camera	2x MIPI-CSI, one 13.0MP or two 8.0MP
USB Type-C	1, USB3.0 and DP1.2	Audio	MIC, Headphone/Speaker
USB 3.0	1	WiFi	IEEE 802.11a/b/g/n/ac
USB 2.0	4	BT	BT 5.0
SPI	2	M.2	PCIe x4
UART	1(multiplexed with SPI1)	4G	Mini PCIe socket
IIC	1	GPIO	4
ADC	2	Debug	USB converted to serial

◆ TARGET APPLICATION

Edge computing, facial recognition, 5G smart terminal, 3D printer, TV-box, NAS, VoIP, surveillance, IoT, etc.

