# RENESAS FET-G2L-C SoM

OVERVIEW

FET-G2LD-C SoM is designed based on G2L which is a hybrid processor contains a dual-core Cortex-A55 processor up to 1.2GHz and a Cortex-M33 core up to 200MHz and integrated with Mali-G31 GPU up to 500MHz, the SoM is pluaggable and it could be connected to carrier borad by three untra thin connectors, which is much more convenient for user's carrier board designing and also product maintenance. Besides, it has RS485 and CAN buses with EMC solution on carrier board, which is much preferable for field applcation.

SoM FET-G2LD Features			
CPU	Renesas RZ/G2L (R9A07G044Lxx)	Ethernet	2x 10/ 100/ 1000Mbps IEEE802.3 PHY RGMII, IEEE802.3 PHY MII
Architecture	Cortex-A55+ M33	UART	5, support 16-byte FIFO
RAM	2GB DDR4(1GB optional)	CAN FD	2, CAN-FD ISO 11898-1(CD2014), up to 4Mbps
Flash	8GB eMMC	SD	1
OS	Linux4.19	Audio	4, IIS/ mono/ TDM
Voltage input	DC5V	IIC	3
Working Temp	-40℃~ +85℃	non-FIFO UART	2
Package	board-to-board connector	SPI	3
Dimensions	60x 38mm	MTU	9
Display	1x parallel RGB up to WXGA or 1x 4-lane MIPI-DSI	GPT	8
Camera	2x 4-lane MIPI CSI, 4000Mbps or 2x DVP	ADC	8
USB	1x USB 2.0 Host, 1x USB 2.0 OTG	WDT	3
QSPI	1	JTAG	supported
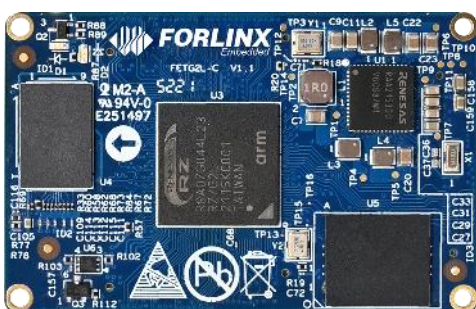
OK-G2L-C Carrier Board Features

MIPI-DSI	1x 4-lane MIPI-DSI	USB Host	2x USB2.0
MIPI CSI	1, by a 26-pin FPC connector	USB OTG	1x USB Type-C
Ethernet	2x 10/ 100/1000Mbps, RJ-45	SCIF(UART)	1, by 2.54mm headers
WiFi& BT	RL-UM02WBS-8723BU-V1.2 WiFi: IEEE 802.11b/g/n 2.4GHz BT: BT V2.1/BT V3.0/BT V4.0	SPI	3, by 2.54mm headers
4G	1, recommended model: EC20	ADC	8, by 2.54mm headers
QSPI	1	RS485	1, isolated
TF card slot	1	IIC	3
Audio	1, WM8960	JTAG	1, by 1.27mm headers
CAN	2x CAN-FD		