

# FCU1101 Embedded Computer

## OVERVIEW



FCU1101 embedded computer is designed based on NXP i.MX6UL processor@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 to +70 celsius degree).

### FCU1101

CPU	Model: NXP i.MX6UltraLite Architecture: Cortex-A7 Frequency: 528MHz	RTC	CR2032, NTP is supported
RAM	256MB LvDDR3	Encryption	IIC, on-board encryption chip,suspended
Flash	256MB/1GB NandFlash	Watchdog	supported
Storage expand	TF card slot	LED	power indicator, system status indicator
Cellular	4G, EC20 from Quectel	Zigbee/LoRa	LoRa: E32-TTL-100, 433MHz; ZigBee: WLT2408NZ LoRa and ZigBee are alternative
Network	1x 10/ 100M Ethernet protocol: TCP/IP, UDP, DHCP, TFTP, FTP, Telnet, SSH, Web, HTTP, MQTT	RS485	4 isolation: signal, 1.5KV power isolation Protection: ESD4 Protocol: Modbus(RTU)
WiFi	RL-UM02WBS-8723BU, STA and AP both supported	Power input	DC12V, input range: DC9V~36V, antireverse and over-current protection
Reset	1	Dimensions	105mm x 100mm x 33mm
Boot key	can support Nand Flash and SD card booting modes	Mounting	fixed by screw
Environment	RH: 5% ~ 95%, non-condensing working temp: -35°C ~ +70°C storage temp: -40°C ~ +85°C	OS	OS: Linux 3.14 file system: Yaffs2 Compiler: arm-fsl-linux-gnueabi-gcc-4.6.2

