

EC32LXX 2.4GHz 802.11 b/g/n Modules Fully Certified Wi-Fi Ready MCU Modules Open Architecture for Custom App Development

The EC32Lxx family of modules is the ultimate choice for product designers who want to integrate Wi-Fi into their network connected devices and appliances. The EC32LXX has the lowest power consumption, smallest footprint, the most comprehensive software library and open source applications.

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Internet of Things. Think WiSmart™



Resource	EC32L11	EC32L12	EC32L13	EC32L14	EC32L22	EC32L23	EC32L24	EC32L44
Processor (MCU)	STM32F103RD ARM Cortex-M3 32bit	STM32F103RE ARM Cortex-M3 32bit	STM32F103RF ARM Cortex-M3 32bit	STM32F103RG ARM Cortex-M3 32bit	STM32F205RE ARM Cortex-M3 32bit	STM32F205RF ARM Cortex-M3 32bit	STM32F205RG ARM Cortex-M3 32bit	STM32F405RG ARM Cortex-M4 32bit
Clock	72MHz	72MHz	72MHz	72MHz	120MHz	120MHz	120MHz	168MHz
Flash for user apps	100KB	100KB	150KB	400KB	100KB	150KB	400KB	400KB
RAM for user apps	25KB	25KB	30KB	30KB	90KB	95KB	95KB	160KB
GPIOs	25x	25x	25x	25x	25x	25x	25x	25x
USART1	4.5Mbps	4.5Mbps	4.5Mbps	4.5Mbps	7.5Mbps	7.5Mbps	7.5Mbps	10.5Mbps
USART2	2.25Mbps	2.25Mbps	2.25Mbps	2.25Mbps	3.25Mbps	3.25Mbps	3.25Mbps	5.25Mbps
USART3	2.25Mbps	2.25Mbps	2.25Mbps	2.25Mbps	3.25Mbps	3.25Mbps	3.25Mbps	5.25Mbps
UART4					3.25Mbps	3.25Mbps	3.25Mbps	5.25Mbps
UART6					7.5Mbps	7.5Mbps	7.5Mbps	10.5Mbps
I2C	2x	2x	2x	2x	2x	2x	2x	2x
I2S	2x	2x	2x	2x	2x	2x	2x	2x
SPI	3x18Mbps	3x18Mbps	3x18Mbps	3x18Mbps	3x42Mbps	3x42Mbps	3x42Mbps	3x42Mbps
12b ADC	3x	3x	3x	3x	3x	3x	3x	3x
12b DAC	2x	2x	2x	2x	2x	2x	2x	2x
Temp Sensor	1x	1x	1x	1x	1x	1x	1x	1x
USB 1.1	1x	1x	1x	1x	1x	1x	1x	1x
CAN2.0A/B	1x	1x	1x	1x	2x	2x	2x	2x
JTAG	1x	1x	1x	1x	1x	1x	1x	1x
RNG					1x	1x	1x	1x
Serial2Wi-Fi	No	No	Yes	Yes	No	Yes	Yes	Yes
DLNA DMR/DMS	No	No	Yes	Yes	No	Yes	Yes	Yes
OTA FW	No	No	Yes	Yes	No	Yes	Yes	Yes
WPS w/PIN	No	No	Yes	Yes	No	Yes	Yes	Yes
WPA/WPA2	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SSL/HTTPS	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Standby	2-4uA	2-4uA	2-4uA	2-4uA	2-4uA	2-4uA	2-4uA	3-5uA
Connected Idle ⁽¹⁾	2.3-2.6mA	2.3-2.6mA	2.3-2.6mA	2.3-2.6mA	2.3-2.6mA	2.3-2.6mA	2.3-2.6mA	2.3-2.6mA
TX/RX (TCP)	10/16 Mbps	10/16 Mbps	10/16 Mbps	10/16 Mbps	18 Mbps	18 Mbps	18 Mbps	22 Mbps
Dimensions	34x22x4mm	34x22x4mm	34x22x4mm	34x22x4mm	34x22x4mm	34x22x4mm	34x22x4mm	34x22x4mm

FCC, EC, IC, TELEC, RoHS, (1) DTIM:5