WISE-1530

M2.COM Wi-Fi / BLE IoT Node



Features

- ARM Cortex-M4 Core Processor RAM 256 KB memory / 1MB Flash
- Integrated with 802.11 b/g/n and Bluetooth 4.1
- Rich interface for sensor and I/O control
- Support wide temperature -20 ~ 70 °C

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Introduction

WISE-1530 is a wireless module integrated with ARM Cortex-M4 Processor and Wifi / BLE connectivity. This technology is the best solution for WIFI and BLE combo Applications. For example, we may use BLE to configure device and transfer mass data through wifi connectivity. You may choose the WIFI or BLE to submit your sensor data according to different scenario and purpose, such as the short range with low power consumption or mass data rate to complete the specific task.

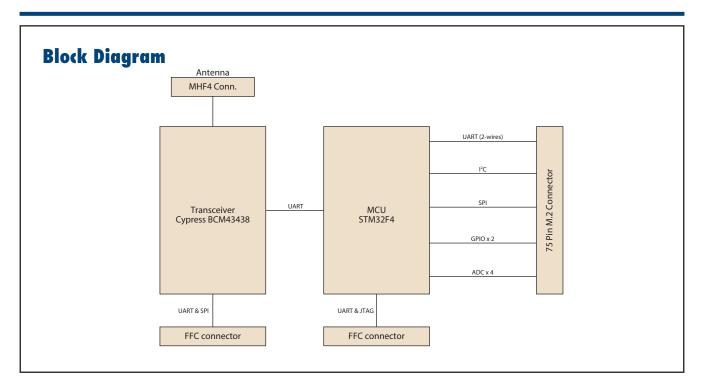
Your sensors or applications with low data rate requirement can be achieved years battery lifetime in short range communication BLE. Advantech WISE-1530 also provides multiinterfaces for sensor and I/O control.

With ThreadX v5.6 microprocessor operating system and add-on software stacks, it's convenient to build the application software or sensor algorithm over the OS. Data can be quickly and easily acquired and transformed into a different format to communicate with WISE-PaaS or other cloud services. Developer can build their application backbone faster and focus on their applications, value-added services.

Specifications

Processor System	CPU/MCU	STM32F4 ARM® 32-bit Cortex®-M4 CPU 100MHz
	RAM	256 KB
	Flash	1024 KB
Form Factor		M.2 TYPE 2230-D3-E
	Standard	IEEE 802.11b/g/n and Bluetooth 4.1
Wireless Network	Frequency Band	2.4000~2.4840 GHz for Wi-Fi 2.4000~2.4835 GHz for BLE
	Channels	13
	Topology	Star network
	Transmit Power	Typ. 14 dBm ± 2 at 802.11b CCK Mode 1M Typ. 12 dBm ± 2 at 802.11g OFDM Mode 54M Typ. 12 dBm ± 2at 802.11n OFDM Mode MCS0 Max 10 dBm ± 2 for BLE
	Receiver Sensitivity	Typ95 dBm at 1 Mbps Typ75 dBm at 54 Mbps Typ89 dBm at MCS0 Typ89 dBm for BLE
	RF Data Rate	Up to 65 Mbps
	Function	End node
	Antenna connector	MHF4 connector
Ethernet		-
Cellular		-
GPS		-
	UART	1 (2 wire support RTS/CTS)
	CANbus	-
	I ² C	1
	I ² S	1
I/O Interface	GPIO	2
	PWM	-
	SPI	1
	ADC	4
	USB	-

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Specifications Cont.

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Programing Port		1, UART port 3
Debug Port		1 develop and debug with WISE-ED22 (CN1)
Watchdog Timer		-
	LED	-
	Button	-
Indiantee and Duttee	Serial Port	-
Indicator and Button	Switch	-
	SD Socket	-
	USB Port	-
Europeine	SIM Socket	-
Expansion	Mini PCle Socket	-
Dawar	Power Supply Voltage	3.3V
Power	Power Consumption	TBC
Facilitation	Operational Temperature	-20 ~ 70 °C
Environment	Operating Humidity	5% ~ 95% Relative Humidity, non-condensing
	Dimensions (W x D)	22 x 30 mm
Mechanical	Mounting	-
	Weight	3g
Operating System		Mbed OS 5.4/ThreadX v5.6, SDK 4.1.8
Certification		CE/FCC/IC/TELEC/SRRC//NCC

Ordering Information

Part No.

Description WISE-1530ITB-SDA10 WISE-1530 M2.COM WIFI/BLE module

Optional Accessories

Devi Ne	Description
Part No.	Description
WISE-DB1500-0IA1E	M2.COM evaluation carrier board
1750008653-01	Antenna Cable RP-SMA to MHF4 L=200mm
1750007965-01	Antenna Cable R/P SMA (M) to MHF4, 300mm
1750007965-01	Antenna Cable R/P SMA (M) to MHF4, 300mm
1700015038	FPC Cable 10P-0.5mm 7.9cm
9696ED2200E	ASS'Y WISE-ED22 A101-1 M2.COM Daughter
1931000590	Screw M2.5x5L F/S D=5.3 H=0.8 (1+) ST Ni
1700023619-01	A cable USB-A 4P(M)/micro USB 5P(M) 1m
1700025876-01	M cable USB-A 4P(M)/Plug-in 2P-5.0 90CM