Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

WISE-DK1520 Starter Kit

Development Kit for Low Power Wi-Fi M2.COM Module WISE-1520
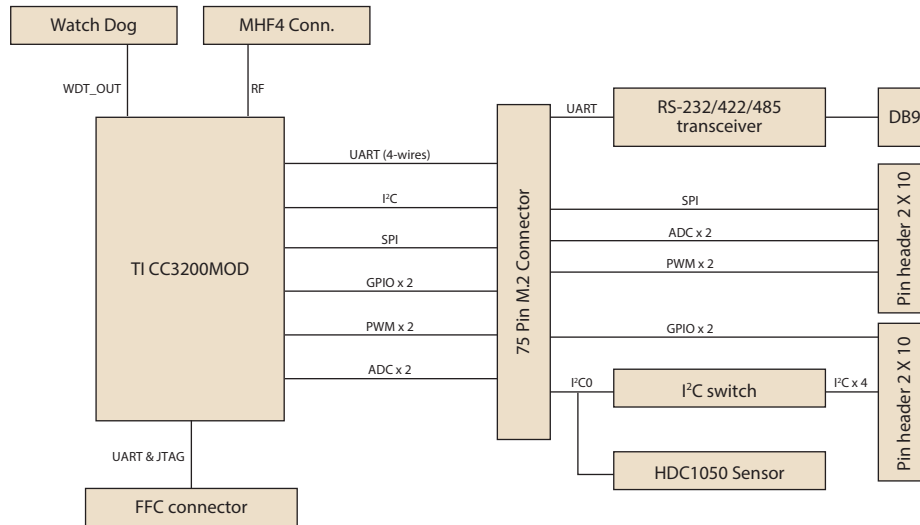
NEW

m2.COM

Features

- Development kit for WISE-1520
- ARM Cortex-M4 processor
- RAM 256 KB memory / 1MB Serial Flash
- Built-in Low-power Wi-Fi connectivity
- Support 1 UART, 1 I2C , 1 SPI, 2 GPIO, 2 PWM, 2 ADC
- 22 x 30 mm M.2 key E
- Build-in temperature and humidity sensor
- Cable & antenna included
- WISE-Agent built-in
- WISE-PaaS/RMM cloud solution ready
- SDK for development

Specifications

Processor System	CPU/MCU	TI ARM Cotec-M4 Processor
	RAM	256KB
	Flash	1MB
Form Factor		WISE-1520 Starter Kit
Wireless Network	Standard	IEEE802.11 b/g/n
	Frequency Band	2.412~2.472 GHz
	Channels	World Wide 13 Channels 1-11 with active scan, Channels 12,13 with passive scan
	Topology	Star network
	Transmit Power	17 dBm at 1 DSSS 17.25 dBm at 11 CCK 13.5 dBm at 54 OFDM
	Receiver Sensitivity	-94.7 dBm at 1 DSSS -87 dBm at 11 CCK -73 dBm at 54 OFDM
	RF Data Rate	UDP:16Mbps TCP: 13Mbps
	Function	End node
	Antenna connector	MHF4 connector
Ethernet		-
Cellular		-
GPS		-
Programing Port		-
Debug Port		1 develop and debug with WISE-ED20
Watchdog Timer		1 TPS3820 WDT, 900ms time-out
Indicator and Button	LED	2, Power LED, CB_PWR_ON LED
	Button	2, Reset, Wake Up
	Serial Port	-
	Switch	2, Re-configuration, RF disable
I/O	RS-232/422/485	1 (by jumper setting)
	SPI	1
	ADC	2
	PWM	2
	GPIO	2
	I²C	1 (with 1 to 4 port switch)
	Sensor	1 Humidity/Temperature sensor
Expansion	SIM Socket	-
	Mini PCIe Socket	-
Power	Power Supply Voltage	5V
	Power Consumption	-

Block Diagram

Specifications Cont.

Environment	Operational Temperature	-20 ~ 70° C
	Operating Humidity	5% ~ 95% Relative Humidity, non-condensing
Mechanical	Dimensions (W x D)	100 x 72 mm
Operating System		TI RTOS/mbed OS
Certification		CE/FCC Class B

Ordering Information

Part No.	Description
WISE-DK1520-TB00E	WISE-1520 M2.COM quick starter kit with TI-RTOS -20 ~ 70° C

Packing List

Part Number	Part Description
9696150000E	ASS'Y WISE-DB1500 A101-1 M2.COM CARRIER
9696152000E	ASS'Y WISE-1520 A101-1 CC3200MOD M2.COM MODUAL
9696WED200E	ASS'Y WISE-ED20 A101-1 M2.COM Daughter Board
XRISC-ADP-10HW-AG	ADP A/D 100-240V 10W 5V WM
1653300100	MINI JUMPER 2P 2.54mm 180D(F) 1132-040-02
1700015038	FPC Cable 10P-0.5mm 7.9cm for DCU2.0
1700023619-01	A cable USB-A 4P(M)/micro USB 5P(M) 1m ADAM-T212
1700025875-01	A cable 1P-2.54*20/1P-2.54*20 20cm
1700025876-01	M cable USB-A 4P(M)/Plug-in 2P-5.0 90CM
1750007965-01	Antenna Cable R/P SMA (M) to MHF4, 300mm
1750008314-01	Antenna 2.4GHz 2dBi SMA Male Reverse L=100mm
1931000590	Screw M2.5x5L F/S D=5.3 H=0.8 (1+) ST Ni
193A231540	POST F=M3*6L M=M3*6L D=5 d=2.88 B=5 H=15 Cu
968EMLSAP1	SUSIAccess Pro V2.0 Package download card/flyer/