

CMDK-21A Users Guide V1.0

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Date	Revision	Description
2021-3-4	V1.0	Initial Release

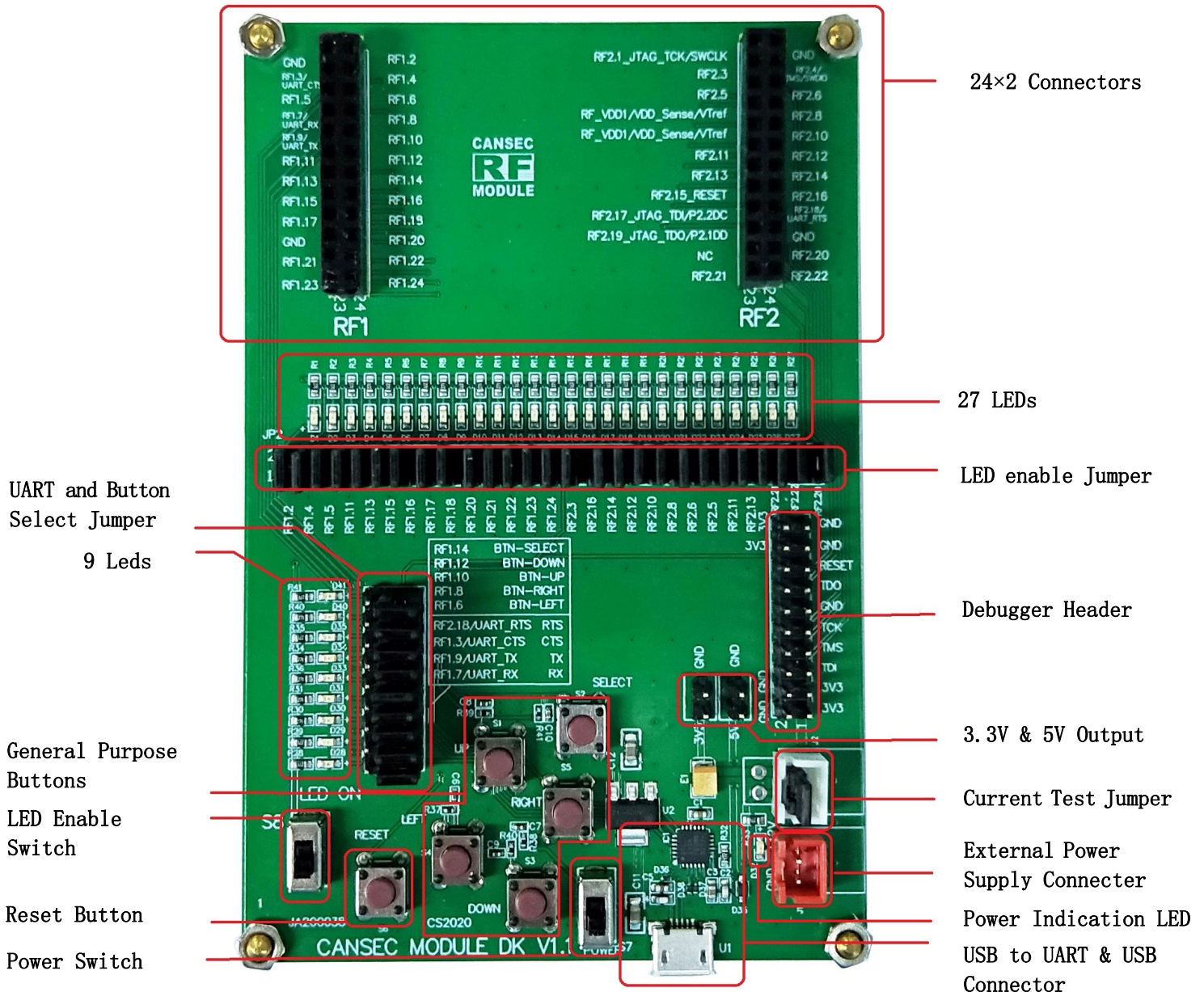
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1. Introduction

CMDK-21A is an evaluation development platform for the TI CC26XX/CC13XX module family. The Development Kit are completely compatible with TI SimpleLink evaluation development platform. Easy setup with TI SDK for evaluation, testing and development.

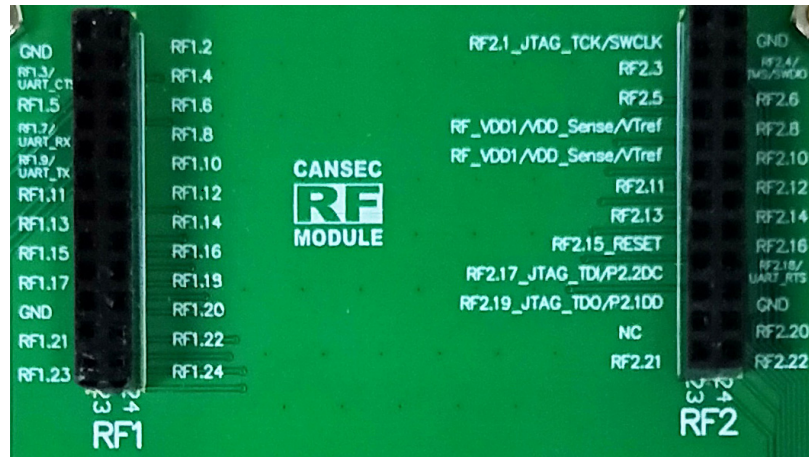
2. Hardware Description



2.1 Flexible Module Connector

The 24×2 connectors on CMDK-21A are used for connecting Modules in different size.

2.1.1 Pin-out of the Connector



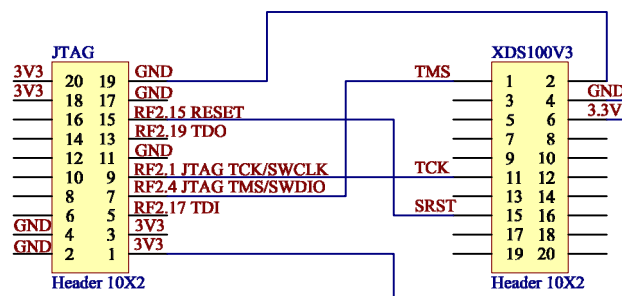
GND	1	2	RF1.2	RF2.1 JTAG-TCK/SWCLK	1	2	GND
RF1.3 UART-CTS	3	4	RF1.4	RF2.3	3	4	RF2.4 JTAG-TMS/SWDIO
RF1.5	5	6	RF1.6	RF2.5	5	6	RF2.6
RF1.7 UART-RX	7	8	RF1.8	RFVDD1/VDD Sense/VTref	7	8	RF2.8
RF1.9 UART-TX	9	10	RF1.10	RFVDD1/VDD Sense/VTref	9	10	RF2.10
RF1.11	11	12	RF1.12	RF2.11	11	12	RF2.12
RF1.13	13	14	RF1.14	RF2.13	13	14	RF2.14
RF1.15	15	16	RF1.16	RF2.15 RESET	15	16	RF2.16
RF1.17	17	18	RF1.18	RF2.17 JTAG TDI/P2.2DC	17	18	RF2.18 UART-RTS
GND	19	20	RF1.20	RF2.19 JTAG TDO/P2.1DD	19	20	GND
RF1.21	21	22	RF1.22	NC	21	22	RF2.20
RF1.23	23	24	RF1.24	RF2.21	23	24	RF2.22

2.1.2 Available Modules

CMDK-21A can be used for the TI CC26XX/CC13XX module family, such as CC2640, CC2652, CC1352 etc.

2.2 Debug Interface

CMDK-21A can use XDS100V3 Emulator. Connect one 5pin cable between XDS100 V3 Emulator to DK. Make sure the cable is always connected as shown in the figure below.





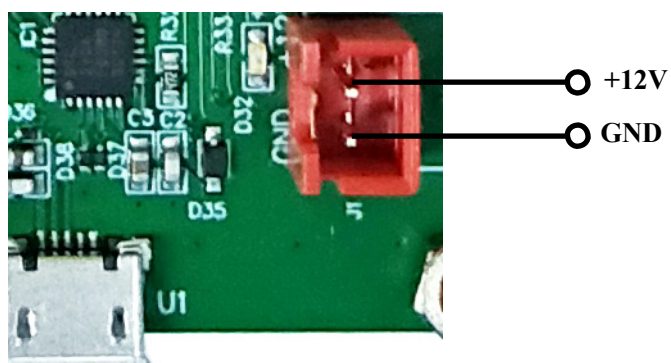
2.3 Power Sources

2.3.1 Two ways to power CMDK-21A

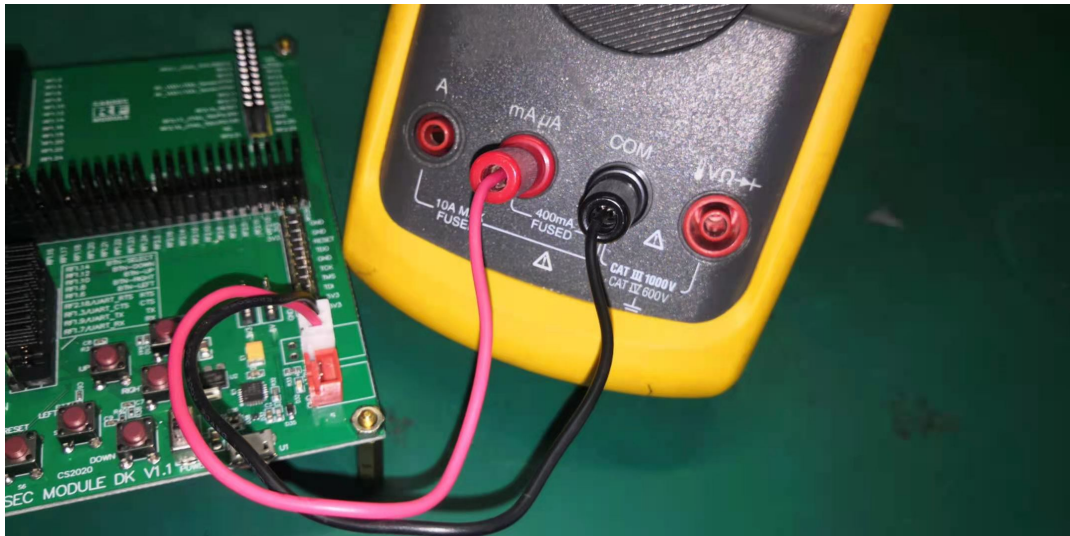
1) USB Bus



2) External Power Supply

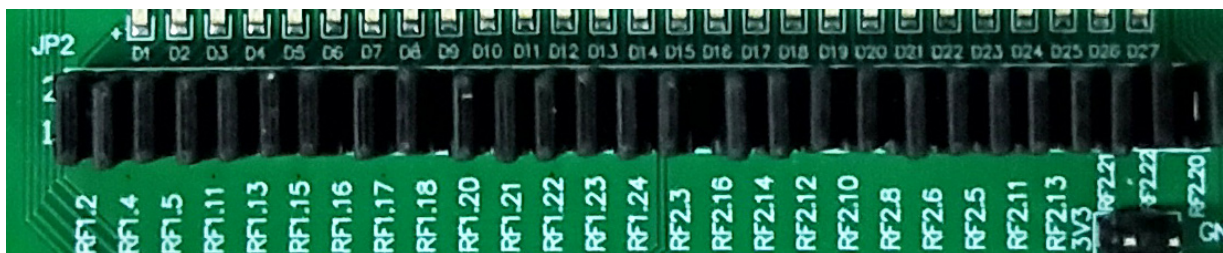


2.3.2 Current Measurement



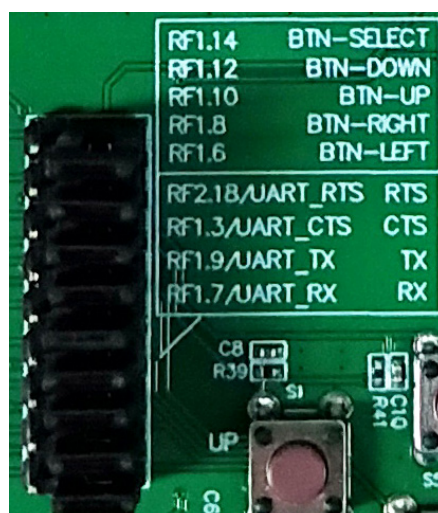
2.4 Other Miscellaneous

2.4.1 LED Enable Jumper (D1-D27)

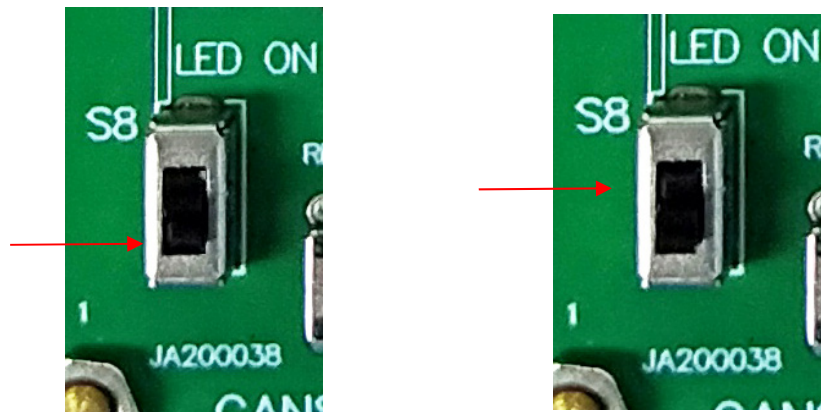


2.4.2 UART and Button Select Jumper

The jumper put on the left means you can use the Button and the Uart. The jumper put on the right means you can use the Led indicate the status of the RF Module I/O.



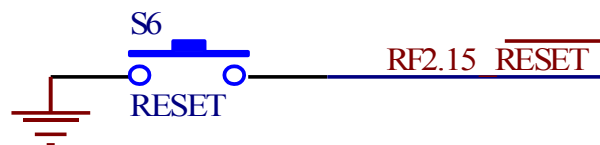
2.4.3 LED Enable Switch



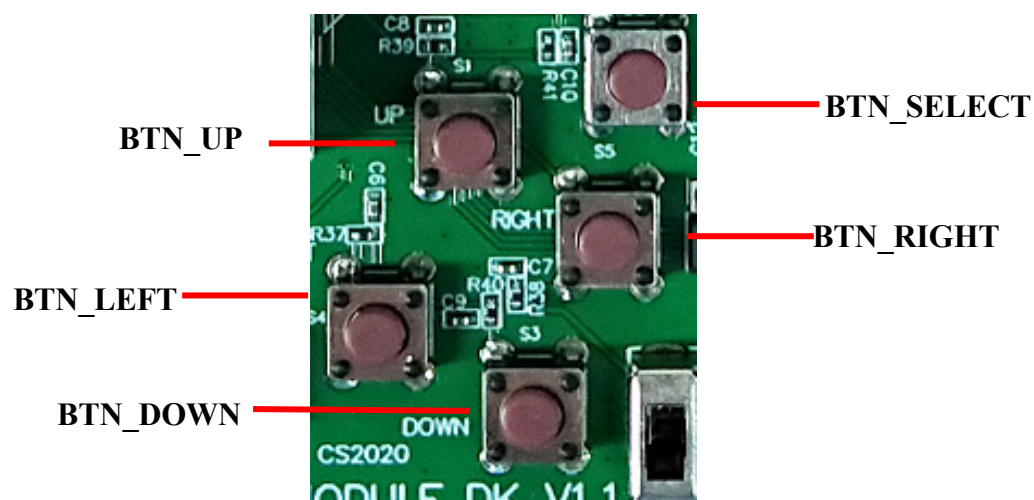
OFF

ON

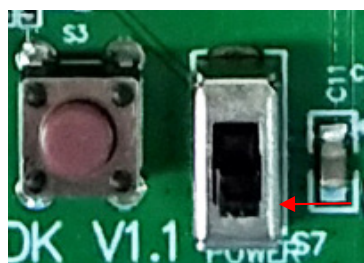
2.4.4 Reset Button



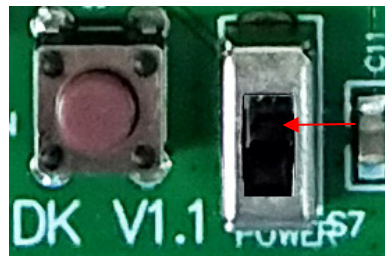
2.4.5 General Purpose Buttons



2.4.6 Power Switch



OFF



ON

2.4.7 Power Indication LED



2.4.8 3.3V & 5V Voltage Output

