



CC Debugger

Version: V1.0

General Description

The CC Debugger is primarily used for debugging and programming the flash on CCxxxx 8051-based System-on-Chip (SoC) devices from Texas Instruments. The PC tools available for these purposes are the SmartRF™ Flash Programmer from Texas Instruments and IAR Embedded Workbench® for 8051 from IAR Systems.

When connected to the debugger, the SoC devices can be controlled directly from SmartRF™ Studio. SmartRF Studio will also be able to control supported CCxxxx RF transceivers (CC2520, CC112x, and CC11xL) when they are connected to the debugger as explained in chapter 6.3. In addition, CC Debugger is used for configuring the CC85xx devices with PurePath Wireless Configurator.

Application

CC-Debugger can be used to program and debug the following 8051-based system-on-chips from Texas Instruments:

- CC1110, CC1111
- CC2430, CC2431
- CC2510, CC2511
- CC2530, CC2531, CC2533
- CC2540, CC2541
- CC2543, CC2544, CC2545

It is possible to control the same devices from SmartRF Studio. In addition, CC-Debugger can control the following transceivers from SmartRF Studio:

- CC1120, CC1121, CC1125, CC1175
- CC1101, CC110L, CC113L, CC115L
- CC2520

It can also be used to program the PurePath Wireless devices:

- CC8520, CC8521
- CC8530, CC8531



General Characteristic

Minimum target voltage:	1.2 Volt
Maximum target voltage:	3.6 Volt
Operating temperature:	0 C to 85 C
Regulated voltage on CC Debugger:	3.3 Volt
Maximum target current draw (*):	200 mA (*)
Supported Operating Systems:	Microsoft® Windows® 2000 Windows XP SP2/SP3 (32 bit versions) Windows Vista® (32 & 64 bit) Windows 7 (32 & 64 bit)

References

- CC-Debugger Quick Start Guide
www.ti.com/lit/swru196
- Cebal – CCxxxx Development Tools USB Driver for Windows x86 and x64
www.ti.com/lit/zip/swrc212
- DN304 – CCxxxx Development Tools USB Driver Installation Guide
www.ti.com/lit/swra366
- Texas Instruments Support
support.ti.com
- Texas Instruments Low Power RF Online Community
www.ti.com/lprf-forum
- SmartRF Studio
www.ti.com/tool/smartrfm-studio
- SmartRF Flash Programmer
www.ti.com/tool/flash-programmer
- SmartRF Packet Sniffer
www.ti.com/tool/packet-sniffer
- SmartRF Flash Programmer User Manual
www.ti.com/lit/swru069
- PurePath Wireless Configurator
www.ti.com/tool/purepath-wl-cfg