



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!



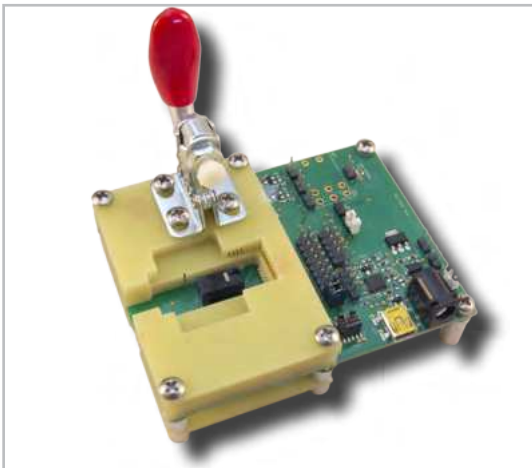
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Power

J13 is used to select between USB or user-provided DC power sources. To use the USB connection as a power source, the shorting jumper on J13 should be on pins 1-2 (this is the default position). To use an external DC power source, the shorting jumper must be moved to pins 2-3. The on-board LDO will convert either USB-provided 5V or user-provided external power to 3.3V.

USB Connection

5V up to 325mA

Alternate Power Connectors (J15 or J7 - see I/O section)

Recommended DC Power Source

4-5VDC 325 mA

(Note: If supplying power on J15, do not supply power on J7)

Absolute Max Input Voltage

16VDC *(Note: Higher voltage levels will result in damage to the unit).*

LEDs

Four LED indicators are provided:

TX – Flashes when the module transmits serial data

RX – Flashes when the module receives serial data

MAIN PWR – Lights when there is 3.3V power present on the board

MODULE PWR – Lights when there is 3.3V power present on the ZigBee module

Connectivity

J10 jumper installed on pins 1-2 and pins 3-4 (the default positions for those jumpers)

Normal USB operation - connects module TX/RX pins to USB interface. (Note: COM port will only be present when the module is powered)

The RapidConnect Programming Fixture provides developers with a selection of convenient interfaces for programming and debugging a RapidConnect ZigBee module.

Compatibility

The following table shows the module versions that each programming fixture can be used to program.

| Fixture SKU | Compatible Module SKU |
|-------------|-----------------------|
| ZPRGF-20 | Z357PA20, Z357PA21 |
| ZPRGF-10 | Z357PA10 |

I/O

Refer to the Ember EM357 data sheet for complete GPIO usage details and specs.

J12 – Ember Debug and Programming InSight Port

Pin 1 = +3.3v

Pin 6 = JCLK/SWCLK

Pin 2 = JTDO/SWO

Pin 7 = JTMS/SWDIO

Pin 3 = nJRST

Pin 8 = nReset

Pin 4 = JTDI

Pin 9 = PTE

Pin 5 = GND

Pin 10 = PTD

J14 – mini-B USB Connector

J2 – Bootloader Mode

Installed = Bootloader mode enabled

J7 – Alternate Power Connection

Pin 1 = Vin

Pin 2 = GND

(Note: When supplying power on J7, install a jumper on J8 pins 1-2 and J13 pin 2-3, and do not connect a DC plug to J15. See Power section)

J1 – EM357 GPIO

J1 pin 1 = +3.3v

J1 pin 6 = PA5

J1 pin 2 = PB3

J1 pin 7 = PB2

J1 pin 3 = PB4

J1 pin 8 = PA6

J1 pin 4 = NRESET

J1 pin 9 = PB1

J1 pin 5 = PA4

J1 pin 10 = GND

All other connections are reserved.

Ordering Information

The RapidConnect Programming Fixture is included in RapidSE or RapidHA Development Kits, but the fixture can also be purchased separately from MMB Networks or its distributors, using the SKU ZPRGF-20.