Digi XBee® S2C Pro Zigbee

RF Module

Migration Guide

Contents

Introduction

The XBee-PRO® S2C Zigbee® RF Module has been updated to provide an alternative to parts that are not readily available.

Specification considerations

The following specification numbers for the module are preliminary.

Sleep current	< 1 uA, unchanged on the new module
Receive current	31 mA @ 3.3 VDC, unchanged on the new module
Receiver sensitivity	-102 dBm
Transmit power	Unchanged @ 18 dBm
Transmit current	110 mA @ 3.3VDC

Part number migration guide

Legacy part number migration

S2C part number	Description	Migrate to
XBP24CZ7UIS-004	XBP, ZB S2C SMT UFL AT	XBP24CZ7UIS-005
XBP24CZ7RIS-004	XBP, ZB S2C SMT RF Pad AT	XBP24CZ7RIS-005

FCC and ISED ID

The new FCC IDs for these modules are listed below. Customers must have updated FCC IDs on their products.

Previous FCC ID	New FCC ID
FCC ID: MCQ-PS2CSM	FCC ID: MCQ-PS2C5

The new ISED IDs for these modules are listed below. Customers must have updated ISED IDs on their products.

Previous ISED ID	New ISED ID
IC: 1846A-PS2CSM	IC: 1846A-PS2C5

Digi XBee 3 DigiMesh functional migration considerations

Hardware and I/O considerations

DIO9 and ON/SLEEP

The **D9** command on other modules is used to configure the behavior of DIO9, which can act as general purpose IO or as a wake status indicator. On this revision the D9 command is unavailable. The DIO9 line will always be high when the device is awake and low when the device is asleep.

The SN command

Normally, the **SN** command is used for two purposes:

1. On a router/coordinator, it is used when calculating the timeout for sending messages to sleeping end devices.
2. On a sleeping end device, the ON/SLEEP line will only be asserted one out of every **SN** sleep cycles.

The second of these two functions is unavailable on this part, as the ON/SLEEP line will always indicate the wake state of the radio.

Firmware update considerations

This radio uses a different firmware than the existing S2C PRO module. Firmware images for this revision have a version number starting with A (e.g. A062). Firmware for the existing S2C PRO module cannot be used with this hardware, or vice versa.

This module can be identified by querying the value of **HV**. Values beginning with 53 indicate the new hardware revision.