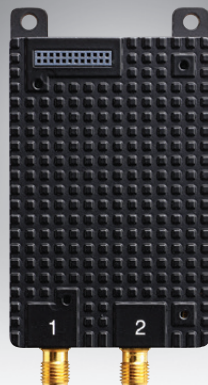


RIM-320

RFID Tracer Two-Port Module

NEW



Features

- The smallest mini-size UHF RFID module; easy for integration
- Free SDK, standard version; Supports Windows®, Windows®CE and Linux
- Supports ISO 18K-6C (EPC Class1 Gen2 1.1 and 1.2)
- Supports power saving mode
- RF output power: 30dBm/1W (Max)
- RF ASIC: Impinj-R1000-chipset-based design
- Two antenna ports
- UART Interface

Introduction

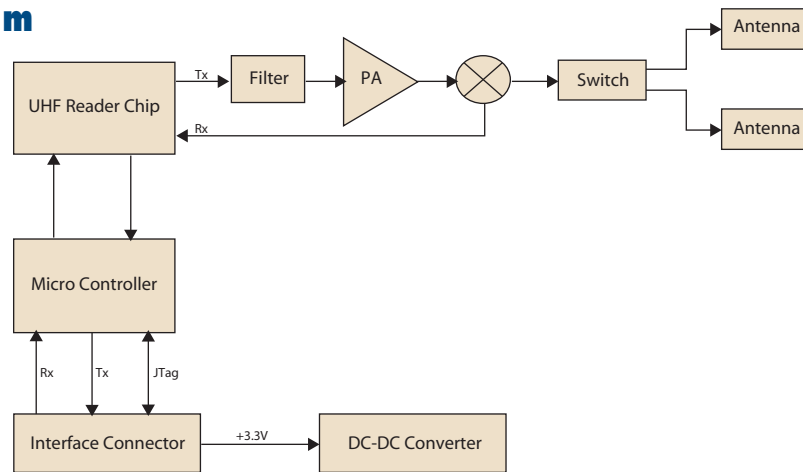
RFID Tracer Module RIM-320, UHF RFID module, is designed with an Impinj R1000 chipset which contains two antenna ports. The maximum RF output power is 30dBm. RIM-320 is designed for easy integration into any existing or new platforms. The low power consumption and super small form factor provides a perfect alternative for mobile or handheld devices. The RIM module's easy and powerful demo package allows for fast creation of custom applications via an API. RIM operates over the North American UHF frequency band (902~928 MHz) and follows ISO 18000-6C international standards. RIM's free demo software offers quick evaluation without software development.

Specifications

Operating Conditions: VCC=3.3 V_{DC}, Ambient Temperature=25°C, 50Ω System

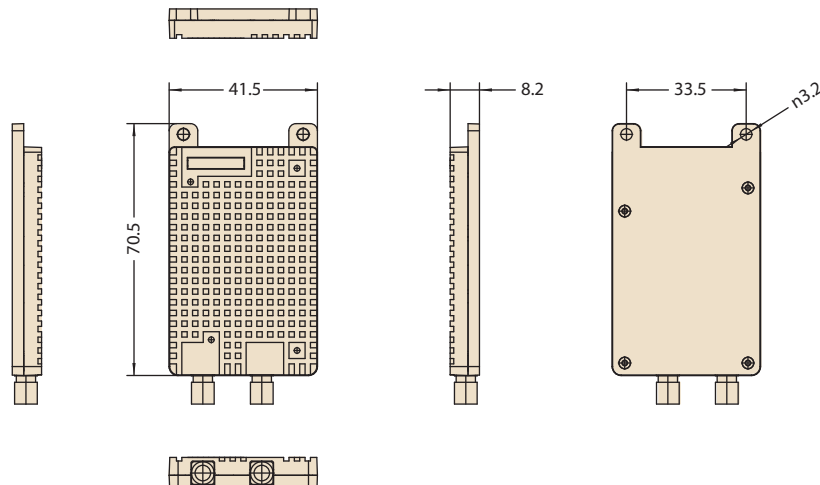
RF Frequency-UHF Operation	902 ~ 928 MHz
Data Rate	Tpy. 62.5 Kbps
Channel Spacing	Tpy. 500 KHz
Frequency Hopping Channels	50 Channels
Supply Voltage	3.3V +5%
Peak Operating Current	1.8 A
Maximum Transmit Power	30 dBm
Operation Temperature	-10 ~ 55° C

Board Diagram



Dimensions

Unit: mm




Packing List

Description	Quantity
RFID Tracer Two-Port Module	x 1

Ordering Information

Part Number	Specifications
RIM-320E	RFID Tracer Two-Port Module

Pin Definitions

24 =>TDO	23 =>RTCK			
22 =>nRST	21 =>TCK			
20 =>GND	19 =>TMB			
18 =>GND	17 =>TDI			
16 =>VCC	15 =>VCC			
14 =>GPIO 3	13 =>GPIO 6			
12 =>GPIO 2	11 =>GPIO 5			
10 =>GPIO 1	9 =>GPIO 4			
8 =>UART Rx	7 =>RESERVER			
6 =>UART Tx	5 =>RESERVER			
4 =>VCC	3 =>GND			
2 =>VCC	1 =>GND			
				RF OUT
				RF OUT