



RA0003

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Antenna Multiplexer



Overview

The **RA0003** module is a 1 to 4 UHF antenna multiplexer that allows to increase the number of antenna ports of CAEN RFID readers. On single antenna readers (i.e. Quark or QuarkUp) it permits to implement low/medium range portals or other applications requiring up to 4 antennas. On 4 port readers it permits to implement smart shelves or other application requiring up to 16 antennas.

RA0003 has SMA RF connectors, is able to manage up to 2W RF power and can be used in the whole range of UHF RFID worldwide band.

The module has an extended supply voltage range (9Vdc÷36Vdc) and TTL level address signals.

Five LEDs provide the user with information about module operation.

Features

- 1 to 4 antenna multiplexer
- Covers the 860÷960 Mhz freq. range
- 9V DC to 36 V DC supply voltage range
- SMA RF connectors
- TTL level address signals

Technical Specification Table

Frequency Range	860÷960 MHz
RF Port Impedance	50 Ohm
RF Power	Up to 2W
Insertion Loss	1.5dB typical
Return Loss	22 dB typical
Isolation	27 dB Typical
RF Connectors Type	SMA jack
Power Supply	- 9V DC ÷ 36V DC - 350 mW max.
Control Voltage Range	9V DC ÷ 36V DC
User Interface	- Green LED: power - Yellow LEDs: selected antenna information
Operating Temperature	-20 °C to +70 °C
IP Rating	IP30
Dimensions	- (L) 65 x (W) 93 x (D) 35 mm ³ - 2.6 x 3.7 x 1.4 inch ³
Weight	155 g.

Ordering Options

WRA0003XAAAA RA0003 - UHF Antenna Multiplexer



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