![KTS SYSTEME logo]

8 Port RFID Multiplexer Module

RFIDMULTIM1356-001

The KTS 8 Port RFID Multiplexer Module is a fully integrated RFID reader/writer module for use in demanding RF environments. Initially designed for medical and industrial applications, the Multiplexer features galvanically isolated communication and power supply circuitry, as well as extensive filtering for high frequency noise on the RFID signal bus. In addition, all RF-sensitive circuitry is protected by a two-piece board level shield.

Thanks to these features, the Multiplexer can be used in close proximity to devices that generate large amounts of RF interference without performance degradation or danger to connected peripherals.

The Multiplexer supports the same AT-style command set as other KTS devices, allowing full-featured RFID application development in electromagnetically harsh environments. With multiplexing circuitry for up to 8 antennas on board, a single Multiplexer Module can be used to read an entire array of antennas either sequentially or individually via AT commands.

Technical Specifications

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Product type	RFID Reader/Writer with Multiplexing, Shielding and Filtering for Harsh Environments
Operating frequency	13.56 MHz
Antenna connection	8 U.FL connectors for 50Ω antennas
RF output power	Up to +23dBm / 200mW
Power supply	+12V DC
Power consumption	200mA avg.
RFID standard support	ISO 15693, ISO14443A/B
Anticollision	Supported
Standard host interfaces	UART w/ HW flow control – Galvanically isolated with user-selectable signal levels (1.8V-5.5V)
Host interface connector	Standard 14-pin 2.54mm box connector
Instruction set	Extensive AT-style command set for scanning, reading and writing tags as well as configuration
Product certifications	CE Certified
Dimensions	70x50x13mm [LxWxH] with RF Shield
Weight	28g with RF Shield
Order number	RFIDMULTIM1356-001