



M6e Micro UHF Module

Projected to attend to high performance demands, the M6e Micro module is the smallest RFID UHF module in the market that can work with RF power of up to 30 dBm for requiring applications. It can be integrated into PCI as an SMD component, working to ease integration of RFID technology in several projects. It has an API for software development in C, .NET and Java.

Purchase Code: 100.214

• Technical Specifications

Tag / Transponder Protocols

- RFID Protocol Support EPCglobal Gen 2 (ISO 18000-6C) with DRM
ISO 18000-6B
Optional IP-X

RF Interface

- Antenna Connector Two 50 Ohm connectors (board-pedge or U.FL) that support two monostatic antennas.
- RD Output Power Separate read and write levels, adjustable -5 to 30 dBm¹ controls, with 0.5 dBm counter, with ± 1 dBm² precision
- Regulation Preconfigured for the following regions:
FCC (NA, SA) 902-928 MHz
ETSI (EU, India) 865.6 - 867.6 MHz
TRAI (India) 865.6 - 867.6 MHz
KCC (Korea) 910-914 MHz
ACMA (Australia)
SRRC-MII (P. R. China) 920-925 MHz
Anatel (BR) 902-907 MHz and 915-928 MHz
"Free" (customizable) 865-869 MHz and 902-928 MHz

Data / Control Interface

- Physical 28 connections (board-edge) or molex low profile connector (53748-0208) for DC power supply, communication, control and GPIO signals
- Communications UART with 3.3 / 5 V logic levels from 9600 to 921.600 bps
USB 2.0 (up to 12 Mbps)
- GPIOs Two bidirectional 3.3 V ports configurable as port inputs (sensor) or outputs (indicator)

Energy

- Supply Tension: 3.5 to 5.25 VDC³
- Consumption DC source: 5.5 W @ +30dBm
3.5 W @ +27dBm
2.5 W @ +23dBm
2.0 W @ +0dBm
0.07 W in active mode
0.05 W in standby mode

Environment

- Certificates FCC 47 CFR Ch. 1 Parte 15
Industrie Canada RSS-21 0
ETSI EN 302 208 v1.4.1
- Operating temperature -20°C to +60°C
- Storage temperature -40°C to +85°C
- Shock and Vibration Supports 1 m falls during usage

Performance

- Max Reading Rate Up to 750 tags / second using high performance configurations
- Max Reading Distance Up to 9 m with 6 dBi antenna (36 dBm EIRP)

Physical Aspects

- Dimensions 46 x 26 x 4 mm

¹ The max power may have to be reduced according to regulamented limits, which specify the combined effect from module, antenna, cable and protection encasing of the integrated product.
² Restrictions of work cycle, based on temperature, which apply to power above +23 dBm.
³ It will work under +5.25 V with noise reduction in input line. Specifications subject to change without previous notice.

• Dimensions [mm]

