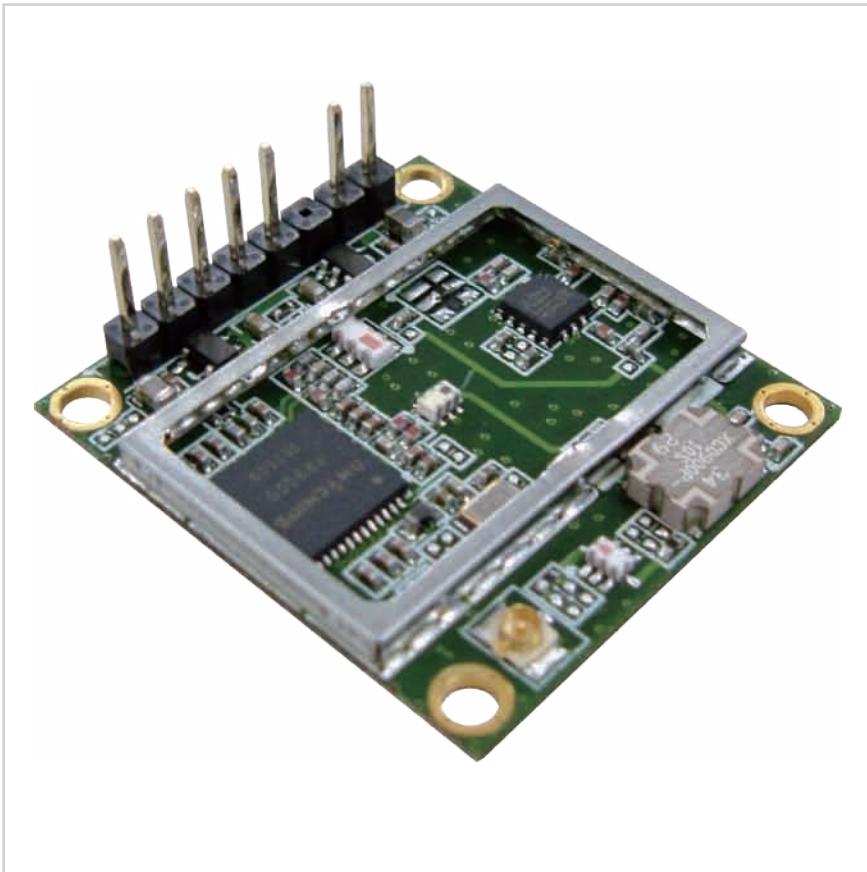




FS-GM101 – EPC C1 Gen2 Short-Range RFID Reader Module

FS-GM101, one of FAVITE RFID reader module family, is a low cost and small size Reader Module design for RFID Printer. The FS-GM101 is embedded with PR9000 chipset and compliant with EPC Class 1 Gen2 Multi Reader mode / ISO 18000-6C standard. RFID system integrator (SI) could embed FS-GM101 module in printer, access control device or POS equipment with the benefits of low cost and superior short-range RF performance.



Key Feature

- PR9000 chipset embedded
- Compliant with EPC Class1 Gen2 / ISO 18000-6C
- Short reading distance
- Support single antennas
- Adjustable Output Power
- Ultra low Power Consumption
- FCC / ETSI Certification
- Low cost

Application

- RFID Printer
- POS
- Access control
- Mobile Phone

System

Host Interface	UART
Chipset	PHYCHIPS PR9000
Operating Voltages	5.0V+/-5%
DC Power	150mA max. @ 10dBm without PA / 500mA max. @ 20dBm with PA (option)

Protocol

RFID Protocol Support	EPC Class 1 Gen 2 / ISO 18000-6C
Support EPC DRM	No

RF Features

Frequency	US: 902 ~ 928 MHz / EU: 865 ~ 868 MHz
Demodulation	ASK
Modulation Depth	90% nominal
Data Encoding	FM0 or Miller code
Bit Rate	Supports uplink data rates of up to 465 Kbps
TX Output power	Without PA: 10dBm max. With PA: 20 dBm max. (option)
Antenna Type	Mono-static
Antenna connector	U.FL Ultra-Miniature Coaxial Connectors

Regulatory and Environmental Compliance

EMC certification	FCC 47 CFG Ch.1 Part 15 (US) / ETSI EN 302 208-1 (V1.1.1) (EU)
Temperature Range	Operating: 0 ~ +55 degree C, Storage: -20 ~ +85 degree C
Humidity	10% ~ 85% Non-condensing

Software

Driver	COM Port: Low Level Command
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Mechanical

Dimension	30mm x 30mm x 3mm ± 0.25mm
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