Products

G Series: Smart Module
(TPL-GMD006)

TPL-GMD006 R2000 module is a high performance, smart and flexible module with embedded intelligence

OVERVIEW

- Offers high performance with 3+1 antenna ports

- The integrated near field antenna simplifies integration work and allows for maximum performance within the module dimensions

- Custom application MCU – the CAM is an integrated micro-controller loaded with your own application (32kBFlash-2kBSRAM-8kBFRAM)

- Designed with flexible and modular architecture – standard or Piggyback mounting and operation ready with Thingple antenna switches and interfaces

Product Code	TPL-GMD006
Performance parameters	
Frequency	860-960Mhz
RFID air interfaces	EPCglobal UHF Class 1 Gen2, ISO 18000-63
RFID chipset transceiver	Impinj Indy R2000
RFID chipset processor	Atmel 32-bit ARM7TDMI
Output power	5 – 30dBm (0.1dB steps)
Power consumption	6W at 30dBm
Antenna	3 external on MMCX connector with Digital Tuning capabilities, 1 internal near field antenna
Custom application MCU	Atmel 8-bit AVR ATmega328P, 32kBFlash-2kBSRAM-8kBFRAM
Host interfaces (RFID chipset)	USB 2.0 on USB micro connector and on RFID chipset GPIO connector, UART TTL on RFID chipset GPIO connector
Host interfaces (CAM)	UART TTL on CAM GPIO connector, I^{2}C 3.3V on CAM GPIO connector
RDIF chipset GPIO	3 x inputs or outputs
CAM chipset GPIO	4 x inputs or outputs
Monitoring	Ambient T^o, PA T^o, forward power, reverse power, PA current consumption
API support	Impinj Indy SDK
Physical parameters	
Size	85 x 65 x 5 mm
Weight	To be defined
Temperature range	
Storage temperature	-55 ~ 85 ℃
Operating temperature	-10 ~ 50 ℃