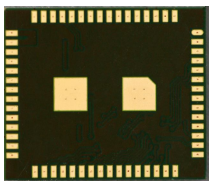
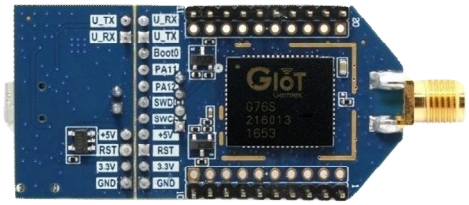
G76S & G78S SiP Module





Features

- LoRaWAN certified
- Compliance to LoRaWAN 1.0.2, Class A/C
- The world smallest LoRa SiP module w/MCU solution
- Design for quick integration of sensors to LPWAN
- High sensitivity down to -148 dBm
- Option support wide frequency range from 470MHz to 928MHz
- Patented Report Mode for most efficient and cost effective sensor integration
- Evaluation board and SDK support for AT command interface, Modbus interface and generic GPIO, UART interfaces

G76S and G78S SiP Modules are general purpose SiP modules for sensor integration. Sensor vendors can speed up their LPWAN integration by embedding this module in their product designs. This SiP module follows LoRaWAN Protocol Class A/C with comprehensive AT command sets, will take care of the LPWAN communication with standard LoRaWAN gateways as a modem.

The SiP module is LoRaWAN certified, no more worry about interoperability issue. Sensor product can integrate this SiP module as a modem and use AT command sets or Modbus interface to send or receive data, through UART interface. Moreover, the sensor product can be controlled by the MCU of the module through using patented "Report mode", that automatically reads data from sensor directly without additional components.

Specification	
Model Name	G76S / G78S
Frequency Band	G76S for EU 863~870 MHz / US 902~928 MHz / India 865~867 MHz / AS 923 MHz G78S for CN 470~510 MHz
Number of Channels	Configurable up to 64 channels / Nodes will select available channel to send data
WAN Protocol	LoRAWAN
Modulation	Based on LoRaWAN
RF Transceiver	SX1276
Transmit RF Power	19 dBm
Receive Sensitivity	Down to -148 dBm
Operating Temperature	-20ºC ~ 70ºC
Storage Temperature	-50ºC ~ 105ºC
Power Voltage	2.0V ~ 3.6V
Interfaces	UART interface with AT command and Modbus, generic GPIOs and ADCs
Dimensions	L:13mm x W:11mm x H:1.1mm
Weight	0.41 g
Security	AES 128

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G76S & G78S SiP Module

SKU Detail			
SKU	Country	Channels	Frequency Band (MHz)
G76S	Universal	64	862~928
G78S	China	16	CN470 (470~510)

* Sample available for India 865~867 MHz

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