

SMK Develops a Miniature Thread-compliant Low Power RF Module with Built-in Antenna



SMK Corporation has developed a miniature thread-compliant low power RF module with built-in antenna.

By promoting this product, SMK intends to contribute to the growth of “Internet of Things” (IoT) and “Machine to Machine” (M2M) in the home network and industry fields such as temperature control, energy management, lighting, safety, security, etc.

Note 1) “Thread” is a new networking protocol for home automation created by the Thread Group.

Note 2) “M2M” refers to communication between devices.



[Product Features]

1. Supports the “Thread” networking protocol

SMK’s module has excellent power saving performance and support for IPv6, both of which are features of “Thread”, enabling seamless internet/LAN communication.

2. Multiple interfaces

A variety of interface terminal shapes (GPIO/UART/SPI/I²C) are available, enabling easy connection to home network devices and industrial equipment.

3. Contributes to reduced man-hours

Acquiring “Japan Radio Law Certification” allows customers to reduce development costs and production time.

[Applications]

Home network devices, industrial equipment



Date Released	February 2nd, 2017	
Release No.	1075FC	
Product Name	Thread-compliant RF module	
Features	<ul style="list-style-type: none"> 1) Mesh network support. 2) Power efficient with more than 10 sleep modes provided. 3) Side through hole connection improves mounting reliability. 4) Surface mounting results in thinner final products. 	
Major Specifications	Frequency Band	2.4GHz
	RF Standard	IEEE802.15.4
	Internet Protocol	IPv6
	External Dimensions	28.0mm (D) × 15.5mm (W) × 5.0mm (H)
	Upper Interface	GPIO/UART/SPI/I ² C
	External Connection	Surface mounting by side through hole
	Antenna	Print antenna
Start Taking Orders From	September, 2017	
Goes into Mass Production From	October, 2017	
Evaluation Board	Evaluation boards will be available from March, 2017	