



VersaRouter 1000-JP

Sub GHz Internet of Things Router

The VersaRouter™ 1000 "Quark" is the world's first standards-based Internet of Things IEEE 802.15.4g compliant router to receive certification in the US, Canada, Europe and Japan. VersaRouter 1000 users can have their devices securely sending commands and receiving data over the Internet in a matter of days, using 6LoWPAN and IPv6 connectivity and HTTP/CoAP based web services to integrate quickly to existing functionality.

The VersaRouter™ 1000 is a low cost entry router that supports up to 500 Smart Objects, with backhaul connectivity via Ethernet. It combines frequency hopping and time division along with path diversity in order to provide market leading data reliability and robustness to wireless interference. The device can be configured from any browser via its embedded web server and supports user selectable WLAN profiles to accommodate different application needs.

The VersaRouter[™] 1000 is also available as an OEM component for inclusion in other products.

PROCESSOR / MEMORY	
Processor	ARM CORTEX A8, 720MHz
RAM memory	512 MB DDR3
Flash memory	512 MB NAND
EEPROM	4Kbyte serial EEPROM (used for factory settings/ configuration)
PERIPHERALS / SOFTWARE	
Ethernet channel	1x10/100Base-T Ethernet Channel, RJ45 connector
Operating System	Linux kernel 2.6 embedded
ELECTRICAL / MECH	ANICAL
ELECTRICAL / MECH Input voltage	ANICAL 5 Vdc
Input voltage	5 Vdc
Input voltage Power consumption	5 Vdc ~3.5 W
Input voltage Power consumption Enclosure / dust & water	5 Vdc ~3.5 W Custom aluminum, indoor use

Key Benefits

- » Supports up to 500 Smart Objects
- »IEEE 802.15.4g and ARIB STD-108 compliant
- » Hardware cryptographic acceleration engine supports state of the art AES128 bit encryption
- » CoRe/REST compliant web services
- » Leverages proven standards: IPv6, RoLL/RPL, 6LoWPAN, 802.15.4e, 802.15.4g, CoAP, EXI

IEEE802.15.4g radio module
922.3-928.1 MHz
28
400-600 kHz
± 15 PPM
FSK
50/100/200 kbps
-100 dBm @ 50 kbps -98 dBm @ 100 kbps -92 dBm @ 200 kbps
1.6Km line of sight
900MHz 2dBi 1/2 WAVE OMNI
50 Ω
+2.2 dBi
Omni-directional
2:1
MMCX connector, right angle on cable
GITEKI, ARIB STD-108 compliant

The VR1000-JP model is compliant with EMC regulations for the following countries/geographical regions:

Japan (JP)