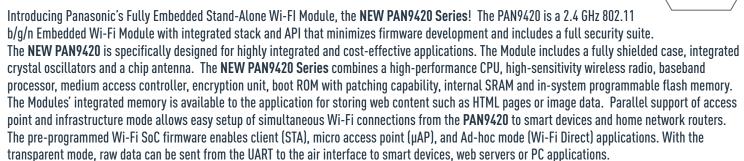
### **Panasonic**



#### **New Product Introduction**

# PAN9420 Fully Embedded Stand-Alone Wi-Fi Module Specifically Designed For Highly Integrated And Cost-Effective Applications.

## The NEW PAN9420 Series Includes A Fully Shielded Case, Integrated Crystal Oscillators And A Chip Antenna.





The NEW PAN9420 Evaluation Kit is available with one PAN9420 Mother Board (MB), one PAN9420-ETU daughter board (includes the PAN9420 FCC version module), and one USB-cable packaged in a large case. The PAN9420-ETU daughter board is equipped on the PAN9420-MB, which has two USB to UART converters allowing the hardware access to the two UART module interfaces (command and binary interface). The PAN9420 FCC version module comes pre-loaded with a firmware for IoT applications and a Panasonic Web content example. With a few simple steps the kit is ready to use.

#### **General Features and Benefits**

- Fully Embedded: Integrated Full-Featured Network Stack
- Contains All Necessary Iot Functionality (Place & Play)
- Integrated Webserver With AJAX/JSON For Web Applications
- No Stack Or Software Implementation Needed On A Host MCU
- Simultaneous Support Of Access-Point And Infrastructure Mode
- Fully Automatic IP Configuration
- DHCP Server Offers IP Configuration In AP Mode
- Access By Names (Http://Yourdevice)
- Integrated TCP/IP Network Stack: Ipv4, ARP, And Autoip
- Supports Tls/Ssl, Https, And Wi-Fi Security (Wpa2)
  For Secure Data Connection

- Over-The-Air Firmware Update
- Two Uart Interfaces (Command And Transparent Data)
- Integrated Qspi Flash Memory For Customer Web Contents And Configuration File
- Programming Via Standard Jtag
- Evaluation Kit With Pre-Installed Web Application For Quick Prototyping Available
- Evaluation And Development Tool Wifigurator For Windows
- Getting Started Tutorials, Pc Tool, Quickstart Guide
- Wide Temperature Ranges Of -40°C To +85°C
- RoHS And REACH Compliant



#### **PAN9420 Additional Features**

- Surface Mount Type (SMT) 29.0 Mm X 13.5 Mm X 2.66 Mm
- Marvell® 88MW300 MCU/WLAN System-On-Chip (Soc) Inside
- Tx Power Up To +16 Dbm @ IEEE 802.11b
- Rx Sensitivity Of -97 Dbm @ IEEE 802.11b DSSS 1 Mbps
- 20 Mhz Channels Up To 72 Mbps

- Power Supply 3.0 To 3.6 V
- Current Consumption 150 Ma (Mix Mode Tx/Rx@11b, 11 Mbps), 75 Ma Rx, 310 Ma Tx Peak
- Power Down Mode Less Than 1 Ma Power Consumption
- Low Power Mode Available

#### **Applications**

· White Goods

Vending Machines

• Home Appliances

#### **Part Number Information**

Part Number	Description	Series Number
ENW-49C01A3KF	Fully embedded stand-alone Wi-Fi module IEEE 802.11 b/g/n Regulatory notice: FCC/IC16 in preparation Supported channel: Channel 1 ~ 11, 2412 ~ 2462 MHz	PAN9420
ENW-49C02A3KF	Fully embedded stand-alone Wi-Fi module IEEE 802.11 b/g/n Regulatory notice: ETSI17 in preparation Supported channel: Channel 1 ~ 13, 2412 ~ 2472 MHz	PAN9420
ENW49C01AYKF	1x Motherboard,1xUSB-Stick,Manual,1x USB-Cable in a large Plastic Case FCC Version	PAN9420KIT

#### **Block Diagram**

