Amphenol

Wi-Fi Module

W106C

Overview

W106C modules designed base on RTL8720CF chip solution It combines a KM4 MCU, WLAN MAC, a 1T1R capable WLAN baseband, RF, and Bluetooth into a single chip.

W106C provides a bunch of configurable GPIOs which are configured as digital peripherals for different applications and control usage.

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W106C could be used for IoT data communication, data collection and control because of rich peripheral interfaces. Data can be transmitted through module to the Internet of Things cloud service platform by using Wi-Fi network connection.

Key Feature

- -20°C to +85°C
- IEEE 802.11b/g/n
- BLE 4.2
- 1T1R 2.4GHz Single Frequency
- Compact size:18.0mm × 20.0 mm × 2.7 mm

Key Benefit

- Integrated platform capabilities
- Multi-types interface supported
- Popular authentication protocols

Application Interfaces

- IOT
- Network Consumer Device
- Metering
- Building Automation
- Home Automation
- Smart lighting
- Industry Control

Features

Wi-Fi	
Standard	IEEE 802.11b/g/n
WLAN PHY	1T1R
BLE	
Version	BLE4.2
RF	
Frequency	2.402GHz to 2.4835GHz
Modulation	802.11b: CCK, DQPSK, DBPSK, DSS 802.11g: 64-QAM,16-QAM.QPSK, BPSK and OFDM 802.11n: 64-QAM,16-QAM, QPSK, BPSK and OFDM Bluetooth: GFSK
Transmit Rate	802.11b: 1,2,5.5,11 Mbps 802.11g: 6,9,12,18,24,36,48,54 Mbps 802.11n: MCS0~7 BLE: CH0 to CH39
Electrical Character	
Memory	Internal Flash: 2MB
Interfaces	GPIO;UART;I2C
Power supply	3.0V to 3.6V
Operation Temperature	-20°C to +85°C

Dimension