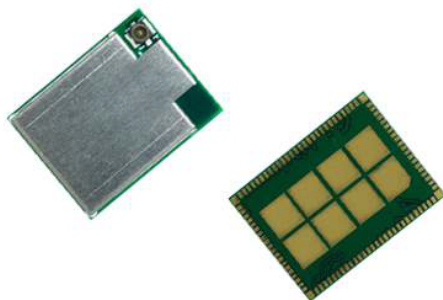


PIXI-9377



Main Features

- PIXI-9377 delivers all your IoT multi-mode wireless communication needs in one ultra-compact and secure System-in-Package module.
- Based on Qualcomm Atheros QCA9377 System-in-Package (SiP) supporting 802.11 a/b/g/n/ac Dual-Band 1x1 and Bluetooth 4.1 (BR+EDR+BLE).
- The module offers the latest and most stringent security and robust radio performance for noisy industrial environments.
- Pre-certified PIXI-9377 with approval from regulatory agencies, including European Union (CE/ETSI/RED), United States (FCC), Canada (IC), Australia/New Zealand (RCM) and Japan (TELEC).



Specifications

System-in-Package

Chipset Qualcomm QCA9377

Connectivity

Wi-Fi Standards 802.11 a/b/g/n/ac
Wi-Fi Generation Wi-Fi 5
Wi-Fi Operating Frequency 2412MHz ~ 2462MHz
5180MHz ~ 5825MHz
BT Operating Frequency 2402MHz ~ 2480MHz
TX/RX Streams Dual-Band 1x1
Bluetooth BT (BR+EDR+BLE)

Antenna

Antenna Connector 1x MHF4

Signaling

Wi-Fi SDIO or PCIe
Bluetooth UART + I²S or USB

Power Specifications

Operating Voltage 3.3V DC +/-10%
Power Consumption TX Mode: max. 510mA
RX Mode: max. 160mA

Driver Support

Standard Support Linux
Yocto
Ubuntu
Android
Windows 10

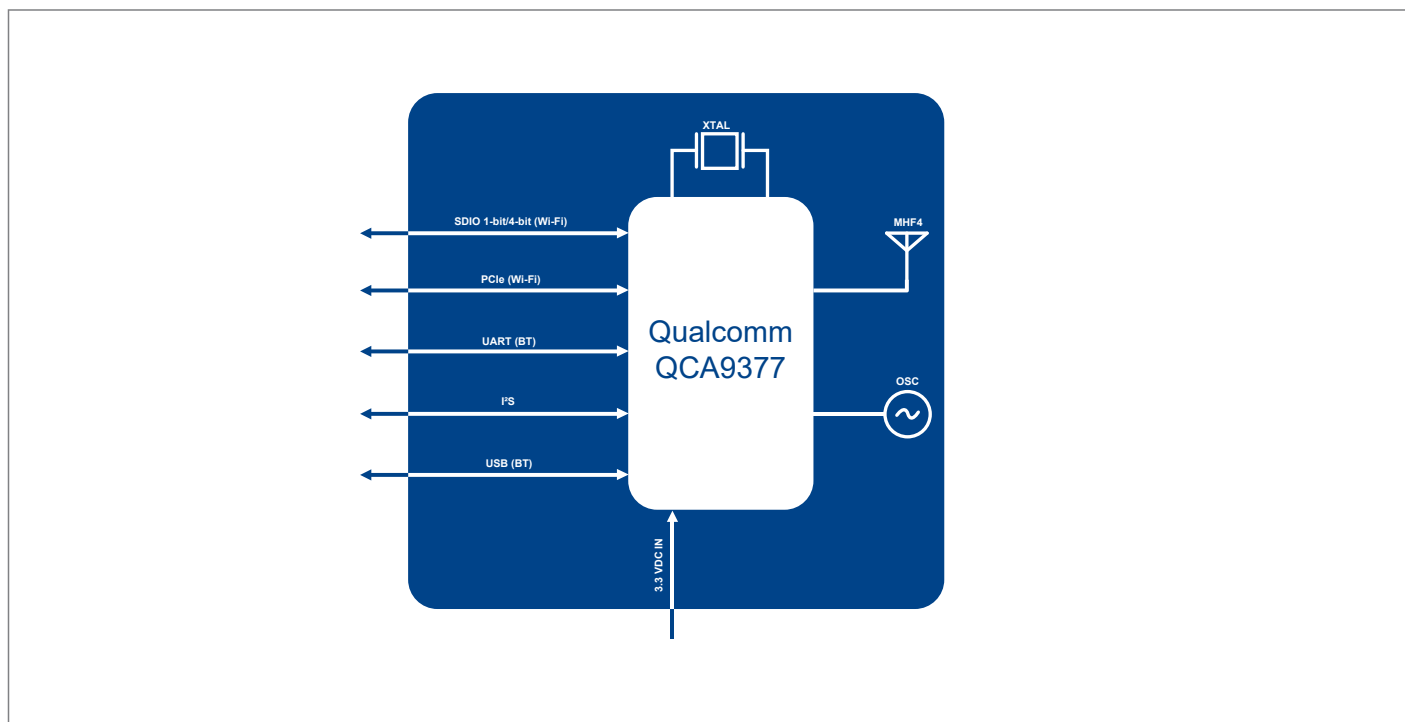
Radio

Transmitted Power 802.11b: 19dBm +/- 2dB @11M
802.11g: 17dBm +/- 2dB @54M
802.11n: 16dBm +/- 2dB @HT20 MCS7
802.11gn: 16dBm +/- 2dB @HT40 MCS7
802.11a: 12dBm +/- 2dB @54M
802.11an: 11dBm +/- 2dB @HT20 MCS7
802.11an: 11dBm +/- 2dB @HT40 MCS7
802.11ac: 9dBm +/- 2dB @VHT20 MCS8
802.11ac: 9dBm +/- 2dB @VHT40 MCS9
802.11ac: 9dBm +/- 2dB @VHT80 MCS9
BT*: 0 ≤ Output Power ≤ 10 dBm
*BT(Class 1 Device)

Receive Sensitivity

802.11a: ≤ -70dBm@54Mbps
802.11b: ≤ -88dBm@11Mbps
802.11g: ≤ -72dBm@54Mbps
802.11gn HT20: ≤ -65dBm@MCS7
802.11gn HT40: ≤ -65dBm@MCS7
802.11an HT20: ≤ -65dBm@MCS7
802.11an HT40: ≤ -65dBm@MCS7
802.11ac VHT80: ≤ -51Bm@MCS9
BT: < 0.1% BER at -70dBm

Block Diagram



Environmental and Mechanical

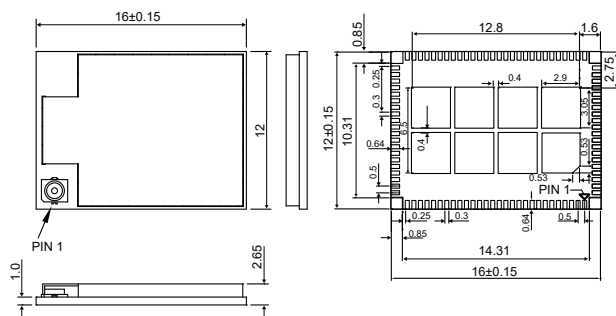
Dimensions	12 x 16 mm
Form Factor	M.2 LGA Type 1216
Weight	≤ 2 grams
Temperature	Commercial: 0° to +60° C Industrial: -40° to +85° C
Relative Humidity	10 to 90 %
MTBF	50 000 Hours
Shock	50G/25ms
Vibration	20G/0-600Hz

Certification and Compliance

USA	FCC ID: 2AKZA-QCA9377
Canada	IC: 22364-QCA9377
Japan	TELEC: 201-180629
European Union	EN 55032 / EN 55024 EN 300 328 v2.2.2 EN 301 893 v2.1.1
Australia/New Zealand	RCM
Bluetooth Logo	QDID150839 (Bluetooth 4.2)
Certification	Compliant with RoHS / REACH directives

Dimensions

(units in mm)



Ordering Information :

PIXI-9377-S

Qualcomm QCA9377 System-in-Package (SiP) IoT module.
Signaling: SDIO (Wi-Fi) / UART (BT) / I²S



PIXI-9377-EVK

Development Kit for Qualcomm QCA9377 based on PIXI-9377-S wireless SiP module including antenna and cable set.



PIXI-9377-P

Qualcomm QCA9377 System-in-Package (SiP) IoT module.
Signaling: PCIe (Wi-Fi) / USB (BT)



STIX-9377-M2-AE

Qualcomm QCA9377 SiP M.2 KEY-A+E Type 2230 IoT module.
Signaling: PCIe (Wi-Fi) / USB (BT)



STIX-9377-M2-B

Qualcomm QCA9377 SiP M.2 KEY-B Type 2242 IoT module.
Signaling: PCIe (Wi-Fi) / USB (BT)



STIX-9377-MPCIIE

Qualcomm QCA9377 SiP mini-PCIe half size IoT module.
Signaling: PCIe (Wi-Fi) / USB (BT)



* Feel free to contact us for customization requests.

2021-01-18. All specifications are subject to change without notice.