

EVIA USB DVK Product Brief

Wi-Fi 802.11ac (1x1) Module

Description

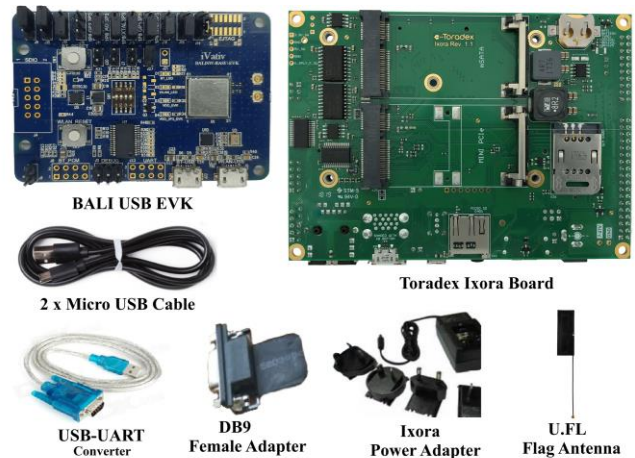
This development kit comes with everything needed for verification of EVIA USB module and application development using included host platform. EVIA is a high performance certified wireless module supporting dual-band 1-stream (1T1R) Wi-Fi 802.11a/b/g/n/ac this small form-factor module delivers high performance WiFi for superior user experience.

EVIA USB EVK board connects to host processor with USB 2.0. It comes with drivers for different operating systems for complete design flexibility and ease of integration.

EVIA USB Module Features

- Host interfaces : USB 2.0 for WiFi
- This module is available in **M.2** form-factor also
- WiFi technology - Low power dual-band (2.4 and 5 GHz), 1-stream MU-MIMO 802.11ac
- WLAN Security : WPA/WPA2 Personal, WPS 2.0, Enterprise security (STA only)
- WLAN Encryption : WEP, TKIP, AES
- Operating modes : STA, SoftAP, P2P Group Owner, P2P Client, STA + SoftAP, STA + P2P Group Owner, STA + P2P Client
- Module Power save : Deep sleep mode, protocol power save modes - Legacy, UAPSD and GreenTx
- Host Power save : WoW, FW Offloading
- WMM, DFS (Master, Client)
- Roaming : 11r/FT, Legacy fast roaming
- 802.11ai : FILS-SK in STA mode

EVIA USB DVK Kit Contents



EVIA USB DVK Features

The EVIA USB Development Kit (DVK) is a platform that enables evaluation of hosted Wi-Fi, connectivity. It uses USB interface for Wi-Fi. The DVK includes procedure for Linux build and instructions set, scripts to test the following:

- Wi-Fi Functionality
- WiFi Security modes
- Throughputs
- Power Consumption

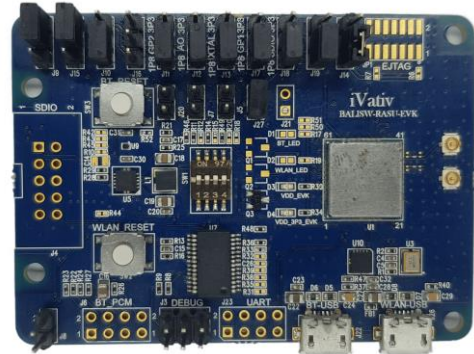
Applications

- Consumer electronics
- Smart appliances
- Applications where plug n play high-speed wireless connectivity is needed

EVIA USB Module Specifications

WLAN Technology	802.11a/b/g/n, 1-stream MU-MIMO 802.11ac
Frequency band	2.4GHz, 5GHz
On air data rates	2.4 GHz 11b - 1,2,5.5,11Mbps 11g - 6,9,12,18,24,36,48,54Mbps 11n - MCS0 to MCS7 or up-to 150Mbps 5 GHz 11a - 6,9,12,18,24,36,48, 54Mbps 11n/ac - MCS0 to MCS9 or up-to 433Mbps
Security features	WPA/WPA2 -PSK TKIP/AES, WPS 2.0, Enterprise Security (EAP) STA only.
Modulation schemes	2.4 GHz 11b - BPSK,QPSK, CCK 11g - BPSK, QPSK, 16-QAM, 64-QAM 11n - PSK, QPSK, 16-QAM, 64-QAM 5 GHz 11a/n/ac - BPSK,QPSK, 16-QAM, 64-QAM
Antenna options	Antenna pin
Supported Host OS	Linux Android Windows 10
Host interfaces	Wi-Fi – USB 2.0
Max throughput	300Mbps
Maximum Transmit Power	Wi-Fi 18dBm
Receive Sensitivity	Wi-Fi -97.5dBm
WLAN bandwidths	20/40/80MHz
Power supply	3.3v to 5.5v
Operating Temperature	-40°C to 85°C
Humidity	5-90%non-condensing
Package	11.75mm x 12mm x 1.6mm LGA
Certifications and approvals	Module certifications - FCC, IC, CE,TELEC

EVIA USB Evaluation Board



The development kit for EVIA USB comes with everything needed for verification of IEEE 802.11n/ac functionality on USB interface. The package contains the following contents:

- 1 x EVIA USB EVK
- 1 x U.FL Flag antenna
- 1 x Micro USB cables
- 4 x Legs to stand the USB EVK
- 1 x Toradex Ixora Board with power adaptor
- 1 x IDC-DB9 male adapter cable
- 1 x USB-serial converter
- Software Drivers for the following development boards
- Toradex Ixora or i.MX6 Sololite

EVIA USB DVK Part Ordering

1952HCR0-IOL-DVK

EVIA USB Industrial Temp, Antenna
Pin DVK Kit

Additional information

For the latest collaterals, please visit <http://www.ivativ.com>