

EVIA mPCIe/hmPCIe USB Card

Wi-Fi 802.11ac (1x1)

Description

This EVIA mPCIe/hmPCIe USB Card is a high performance Wi-Fi certified module supporting dual band 1-stream (1T1R) Wi-Fi 802.11 a/b/g/n/ac. This small form-factor module delivers low-latency and high performance Wi-Fi for superior user experience.

EVIA USB Card connects to host processor with USB (Wi-Fi) host interface over PCIe interface. It comes with drivers for different operating systems for complete design flexibility and ease of integration.

EVIA USB Cards



Mini PCIe Card



Half Mini PCIe Card

EVIA USB Card Features

- ❖ Wi-Fi technology - Low power dual-band (2.4 and 5 GHz), 1-stream MU-MIMO 802.11ac
- ❖ WLAN Security: WPA/WPA2 Personal, WPS 2.0 and Enterprise security (STA only)
- ❖ WLAN Encryption: WEP, TKIP, AES
- ❖ Operating modes:
 - STA and 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 Tx power saving
Feature: Green Tx
- ❖ Host Power save: WoW, Firmware Offloading features such as ARP, GTK offloading to FW
- ❖ QoS/WMM and WMM-PS
- ❖ DFS Client and Master
- ❖ Roaming: 11r/FT, Legacy fast roaming
- ❖ 802.11ai: FILS-SK in STA mode

EVIA USB Card Evaluation and Development Features

The high performance EVIA USB Card comes with the documents which describes the procedures for

- Linux build
- instruction set and scripts to test the following:
 - ❖ Wi-Fi Functionality
 - ❖ Concurrent mode
 - ❖ Wi-Fi Security modes
 - ❖ Throughputs

Applications

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

EVIA USB Card Specifications

WLAN Technology	802.11 a/b/g/n, 1-stream MU-MIMO 802.11ac
Frequency band	2.4GHz, 5GHz
On air data rates	2.4GHz 11b - 1,2,5.5,11 Mbps 11g - 6,9,12,18,24,36,48,54 Mbps 11n - MCS0 to MCS7 or up-to 150 Mbps 5GHz 11a - 6,9,12,18,24,36,48, 54 Mbps 11n/ac - MCS0 to MCS9 or up-to 433 Mbps
Security features	WPA/WPA2 - PSK TKIP/AES, WPS 2.0, Enterprise Security (EAP) STA only
Modulation schemes	2.4GHz 11b - BPSK,QPSK, CCK 11g - BPSK, QPSK, 16-QAM, 64-QAM 11n - PSK, QPSK, 16-QAM, 64-QAM 5GHz 11a/n/ac - BPSK,QPSK, 16-QAM, 64-QAM
Antenna options	Antenna diversity
Supported Host OS	Linux Android Windows
Host interface	Wi-Fi – USB
Max throughput	300 Mbps
Maximum Transmit Power	Wi-Fi 18 dBm
Receive Sensitivity	Wi-Fi -97.5 dBm
WLAN bandwidths	20/40/80 MHz
Power supply	3.3v to 5.5v
Operating Temperature	-40°C to 85°C
Humidity	5-90% non-condensing
Package	Mini PCIe: 30mm x 50.95mm x 2.2mm Half Mini PCIe: 30mm x 26.80mm x 2.2mm
Certifications & approvals	Module certifications - FCC, IC, CE, TELEC

EVIA USB Card Ordering

I952HC00-I65T	EVIA Mini PCIe USB card with Antenna Diversity
I952HC00-I64T	EVIA Half Mini PCIe USB card with Antenna Diversity

Additional information

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

