

EVIA mPCIe/hmPCIe USB Card Product Brief

Wi-Fi 802.11ac (1x1)

Description

This EVIA mPCIe/hmPCIe USB Card is a high performance WiFi 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 WiFi for superior user experience.

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

EVIA USB Card



Mini PCIe Card



Half Mini PCIe Card

EVIA USB Card Features

- ❖ 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 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: GreenTx
- ❖ 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 procedure for Linux build and instructions set, scripts to test the following:

- ❖ Wi-Fi Functionality
- ❖ Concurrent mode
- ❖ WiFi Security modes
- ❖ Throughputs

Applications

- ❖ Applications where plug n play high-speed wireless connectivity is needed
- ❖ Security cameras
- ❖ Automotive in-vehicle Infotainment
- ❖ PoS terminals
- ❖ Printers
- ❖ Consumer electronics
- ❖ Smart appliances

EVIA USB Card Specifications

WLAN Technology	802.11 abgn, 1-stream MU-MIMO 802.11ac
Frequency band	2.4GHz, 5GHz
On air data rates	2.4GHz 11b - 1,2,5.5,11Mbps 11g - 6,9,12,18,24,36,48,54Mbps 11n - MCS0 to MCS7 or up-to 150Mbps 5GHz 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	2.4GHz 11b - BPSK,QPSK, CCK 11g - BPSK, QPSK, 16QAM, 64 QAM 11n - PSK, QPSK, 16QAM, 64 QAM 5GHz 11a/n/ac - BPSK,QPSK, 16QAM, 64 QAM
Antenna options	Antenna diversity
Supported Host OS	Linux Android Windows
Host interfaces	WiFi – SDIO 3.0 / SDR104
Max throughput	330Mbps
Maximum Transmit Power	WiFi 20dBm
Receive Sensitivity	WiFi -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	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

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 <http://www.ivativ.com>

