IGX SevenDot0 Driver Specifications

Windows Embedded Compact
Qualcomm Atheros USB Wi-Fi Driver

Intellgraphics has developed industry's first Windows Embedded Compact & 802.11n USB Driver for Wi-Fi Adapters using Qualcomm Atheros chipsets. The driver complies with IEEE 802.11n Standard, utilizing the MIMO configuration and can support data rates up to 300Mbps.

SUPPORTED USB BASED CHIPSETS

AR7010 + AR9280 (Dual band 2x2:2 MIMO, 2.4GHz and 5GHz, supports upto 300Mbps)

AR7010+AR9287 (Single band 2x2:2 MIMO, 2.4GHz, supports upto 150Mbps)

AR9271 (Single band 1x1:1 MIMO, 2.4GHz, supports upto 150Mbps)

Wireless FEATURES

➢ Supports IEEE 802.11 a/b/g/n
➢ IEEE 802.11e   Conforms to QoS station requirements, with the exception of optional Admission Control and HCF functions
➢ IEEE 802.11i – Conforms to the security requirements for WPA support with personal shared key (PSK)
  Security (Open, WEP 40/WEP 104, WPA/WPA2 PSK, WPA/WPA2 Enterprise)
➢ IEEE802.11d/h This driver conforms to the various regulatory requirements for DFS, International operation, and Japan requirements
➢ Power save (WMM PS)
➢ IEEE 802.11n Features
  1. 802.11 b/g/n (HT20 in 2.4G)
  2. 802.11 a/n (HT20/HT40 in 5G) (Only for AR7010+AR9280 chipset)
  3. Supports upto 300Mbps with 2x2 MIMO with 2 spatial streams support for AR7010+AR9280 chipset

4. Supports upto 150Mbps with 1x1 MIMO with single spatial stream support for AR7010+AR9287 & AR9271 chipsets
5. AMPDU Aggregation & AMSDU Aggregation
6. Short Guard Interval (SGI)
7. Block ACK

➢ Supported Data Rates :
- o 802.11n: MCS 0 7 for (AR7010+AR9287) & AR9271 chipsets
  MCS 0 15 for (AR7010+AR9280) chipset
- o 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
- o 802.11b: 1, 2, 5.5, 11 Mbps
➢ USB Plug and Play (PnP)
➢ USB Surprise Removal

SUPPORTS Intel x86 Archetecture

SUPPORTED WLAN USB ADAPTERS (Commercial Devices)

USB WLAN Adapter	Chipset
AzureWave AW NU138	AR9271
AzureWave AW NU150	AR9271
DLink DWA 126	AR9271
Philips WUB1110	AR9271
Netgear WNA1100	AR9271
Netgear WNDA3200	AR7010+AR9280
Panasonic N5HBZ0000055	AR7010+AR9280
SMC SMCWUSBS N4	AR9271
Sony UWA BR100	AR7010+AR9280
TP LINK TL WN821N v3	AR7010+AR9287
TP LINK TL WN721N	AR9271
TP LINK TL WN722N	AR9271
TP LINK TL WN322G v3	AR9271
TP LINK TL WN422G v2	AR9271
Unex DNUA 93F	AR9271