DP809K WLAN IEEE 802.11bgn Access Point Module



Bountec



802.11 bgn 1x1, with Ethernet Interface, miniPCIe form factor module

Introduction of Products

Bointec DP809K is a hardware access point module for x86, Freescale, MIPs based industrial PC to have Access Point feature without porting WiFi driver in the host CPU platform. use Bointec CSW861K, an Mediatek MT7688 based low-power consumption IoT AP SoC based integrate Wi-Fi single chip solution, DP809K supports IEEE 802.11b/g/n stream, providing GPIO for intelligent control, and UART interfaces for device communication with access point/wifi repeater, wifi client feature.

This completes networking platform enables any kind of electronics to add full-featured Wi-Fi to a wide variety of products with minimal development effort and cost. DP809K supports a network stack along with SSL security, enabling full-featured internet connectivity and reliable information exchange in a small, low-cost system.

Product Highlight

- -Ethernet Adapter chipset to talk to host CPU, such as Freescale, x86, MIPs and others hardware platform
- -Embedded IEEE 802.11 b/g/n drivers, supplicant, and TCP/IP stack with 802.11v
- -Embedded MIPS24KEc (575/580 MHz) with 64 KB I-Cache and 32 KB D-Cache
- -1T1R 2.4 GHz with 150 Mbps PHY data rate
- -Legacy 802.11b/g and HT 802.11n modes
- -20/40 MHz channel bandwidth
- -Green AP/STA Intelligent Clock Scaling (exclusive) -DDRII: ODT off, Self-refresh mode
- -1-port 10/100/1000 FE PHY
- -1 USB 2.0 Host, I2C, UART, GPIO
- -16 Multiple BSSID
- -WEP64/128, TKIP, AES, WPA, WPA2, WAPI
- -AP/STA Firmware: Linux 2.6.36 SDK, OpenWrt 3.10



Specification

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General	
Mediatek® MT7688AN, MIPS24KEc	
580MHz	
DDR2 128MB	
32MB	
HT20 and HT40	
External antenna via IPEX connector (Optional)	
1T1R	
UART	
GPIO	
12C	
USB(host)	
Ethernet	
WiFi	
IEEE 802.11 b/g/n	
2.4GHz (2.412 GHz to 2.484 GHz)	
IPv4, TCP/UDP, ARP/NDP, DHCPv4,	
WPA, WPA2-PSK,WEP46/128,TKIP,AES,WAPI	
WMM,WMM-PS	
Power Consumption	
3.3 V ± 0.05V	
Transmit: 250 mA @16dBm	
Receive: 75 mA (typical)	
Power saving mode(DITM=1): 1.09mA	
Standby mode(Sleep): 130uA	
Dimension	
30 x 50.95 x 8 mm	
Environmental	
Industrial: N/A	
Commercial: -10°C ~ +55°C	
Industrial: N/A	
Commercial: -40°C ~ +85°C	
Operating humidity: 10-80%	







Ordering Information

PART NUMBER	DESCRIPTION
TFGA-DP809K0-11	Finished non packaing,ODM,DP809K





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