

Networking WLAN Solutions

Embedded System/IA Solutions of WLAN 802.11b/g

WLAN 802.11b/g embedded module enables high-speed 54Mbps wireless connections to LAN services. Integrated WLAN into embedded module devices makes it more convenient to get on the net everywhere you are.



The VIA Networking WLAN embedded system/IA solution is the innovative design of VNT's wireless chipset. The WLAN module based on VIA Networking VT6656 is fully compliant with IEEE's security and 802.11b/g standards. Enabling data rates between wireless devices of up to 54Mbps, it can deliver the bandwidth necessary for real-time streaming of high-definition digital multimedia content in home networks, and provide high-speed email, web and LAN access to multiple mobile users in corporate environments or public hotspots.

Specifications

Radio	
Frequency Band:	<ul style="list-style-type: none"> •2400-2483.5MHz(for US, Canada) •2400-2483.5MHz(for Europe) •2400-2497MHz(for Japan)
Operating Channel	IEEE 802.1b (DSSS) & IEEE 802.11g (OFDM) <ul style="list-style-type: none"> •11 Channels(US, Canada) •13 Channels(Europe) •14 Channels(Japan)
Modulation Type:	QPSK, BPSK, CCK, OFDM
Data Rate:	Up to 54Mbps
Antenna:	Supports the antenna diversity function (Optimal antenna selection)
Radiation Power:	13-17Bm at maximum radiation direction
Voltage Supply:	5.0V (Model: VNT6656G6A2X) 3.3V (Model: VNT6656G6A0X, for low power application)
Power Consumption:	<ul style="list-style-type: none"> •384 uA, Suspend •120 mA, Normal mode •250 mA, Active/ high speed mode
Receiver Sensitivity:	<ul style="list-style-type: none"> •Min -71dBm@54Mbps, PER<8% •Min -84dBm@11Mbps, PER<8%
Compliant:	FCC Part 15 B, C
Media Access Controller/ Baseband Controller	
Chip:	VT6656
Media Access Protocol:	CSMA/ CA(Collision Avoidance) with ACK
Interface & Hot-key	
Host Interface:	Supports USB2.0/1.1 standard
Hot-Key:	Supports RF On/OFF mechanism
LED Indicator:	Supports a external or internal LED indicator
Driver Supporting	
Operating System:	Windows: 98SE/ Me/ NT/ 2000/ XP/ 2003 Ser., Linux(2.4.x/2.6.x), CE(4.2/5.0b)
Mechanical	
Physical Dimension:	25X60X5.9 (mm)
Weight:	10g
Environmental Requirement	
Operating Temperature:	<ul style="list-style-type: none"> •0°C to 55°C in Operating •-20°C to 70°C in Storage
Operating Humidity:	<ul style="list-style-type: none"> •0% to 70% in Operating •0% to 95% Non-condensing in Storage
Compliance Certifications:	USB-IF
Warranty	1 year