

## Wireless Module/Dongle

VIA

# VNT6656

IEEE 802.11b/g Standards  
USB Module / Dongle



### Features

- Supports standard 802.11b/g
- Controller chip: VIA VT6656
- Wireless speed up to 54Mbps
- Supports wireless roaming
- Supports 64/128 bit WEP, WPA-PSK, WPA2-PSK & 802.1X security Mode
- Drivers availabilities: Windows XP, Windows 7, Windows Embedded Standard, Linux
- Sizes : module is 25 x 60 mm; dongle is 27.1 x 77.9 mm

### Specifications

Model Name		VNT6656AU USB Dongle	
IEEE 802.11b	<b>Standard</b>	IEEE 802.11b	
	<b>Radio and Modulation Schemes</b>	DQPSK, DBPSK, DSSS, and CCK	
	<b>Operating Frequency</b>	2400 ~ 2483.5MHz ISM band	
	<b>Channel Numbers</b>	<ul style="list-style-type: none"> <li>• 11 channels for United States</li> <li>• 13 channels for Europe/Japan</li> </ul>	
	<b>Data Rate</b>	11, 5.5, 2, and 1Mbps	
	<b>Media Access Protocol</b>	CSMA/CA with ACK	
	<b>Transmitter Output Power</b>	Typical 17dBm at 11, 5.5, 2, and 1Mbps at room temperature 25°C	
	<b>Receiver Sensitivity</b>	<ul style="list-style-type: none"> <li>• Typical -83dBm for 11Mbps @ 8% PER</li> <li>• Typical -88dBm for 2Mbps @ 8% PER</li> </ul>	
	IEEE 802.11g	<b>Standard</b>	IEEE 802.11g
		<b>Radio and Modulation Type</b>	BPSK, QPSK, 16QAM, 64QAM, OFDM
<b>Operating Frequency</b>		2400 ~ 2483.5MHz ISM band	
<b>Channel Numbers</b>		<ul style="list-style-type: none"> <li>• 11 channels for United States</li> <li>• 13 channels for Europe/Japan</li> </ul>	
<b>Data Rate</b>		6, 9, 12, 18, 24, 36, 48, 54Mbps	
<b>Media Access Protocol</b>		CSMA/CA with ACK	
<b>Transmitter Output Power</b>		<ul style="list-style-type: none"> <li>• Typical RF output power at each data rate and at room temperature 25°C</li> <li>• Typical 15dBm at 54Mbps</li> </ul>	
<b>Receiver Sensitivity</b>		<ul style="list-style-type: none"> <li>• Typical sensitivity at which frame (1000-byte PDUs)</li> <li>• Error rate = 10%</li> <li>• Typical -66dBm at 54Mbps</li> </ul>	
General		<b>Antenna Connector Type</b>	Onboard chip antenna
		<b>Operating Voltage</b>	5 VDC +/- 10%
	<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>• Typical 382 mA @ Tx mode/high speed</li> <li>• Typical 305 mA @ Rx mode/high speed</li> </ul>	
Mechanical	<b>Form Factor And Interface</b>	USB 1.1/2.0 interface	
	<b>Length</b>	77.9mm	
	<b>Width</b>	27.1mm	
Environmental Specification	<b>Height</b>	10.2mm	
	<b>Operating Temperature Condition</b>	The product is capable of continuous reliable operation when operating in temperature of 0 °C to 55°C	
	<b>Non-Operating Temperature Condition</b>	-20°C to 70°C	
	<b>Operating Humidity Condition</b>	10% to 90% non-condensing	
	<b>Non-Operating Humidity Condition</b>	10% to 95% non-condensing	
Certificates	<b>Compliant</b>	FCC/CE/NCC/TELEC/SRRC/C-Tick/IDA	





## Specifications

Model Name	VNT6656G6A40 USB Module		
IEEE 802.11b	<b>Standard</b>	IEEE 802.11b	
	<b>Radio and Modulation Schemes</b>	DQPSK, DBPSK, DSSS, and CCK	
	<b>Operating Frequency</b>	2400 ~ 2483.5MHz ISM band	
	<b>Channel Numbers</b>	<ul style="list-style-type: none"> <li>• 11 channels for United States</li> <li>• 13 channels for Europe/Japan</li> </ul>	
	<b>Data Rate</b>	11, 5.5, 2, and 1Mbps	
	<b>Media Access Protocol</b>	CSMA/CA with ACK	
	<b>Transmitter Output Power</b>	Typical 17dBm at 11, 5.5, 2, and 1Mbps at room temperature 25°C	
	<b>Receiver Sensitivity</b>	Typical -80dBm for 11Mbps @ 8% PER	
	IEEE 802.11g	<b>Standard</b>	IEEE 802.11g
		<b>Radio and Modulation Type</b>	BPSK, QPSK, 16QAM, 64QAM, OFDM
<b>Operating Frequency</b>		2400 ~ 2483.5MHz ISM band	
<b>Channel Numbers</b>		<ul style="list-style-type: none"> <li>• 11 channels for United States</li> <li>• 13 channels for Europe/Japan</li> </ul>	
<b>Data Rate</b>		6, 9, 12, 18, 24, 36, 48, 54Mbps	
<b>Media Access Protocol</b>		CSMA/CA with ACK	
<b>Transmitter Output Power</b>		<ul style="list-style-type: none"> <li>• Typical RF output power at each data rate and at room temperature 25°C</li> <li>• Typical 15dBm at 54Mbps</li> </ul>	
<b>Receiver Sensitivity</b>		<ul style="list-style-type: none"> <li>• Typical sensitivity at which frame (1000-byte PDUs)</li> <li>• Error rate = 10%</li> <li>• -68dBm at 54Mbps</li> </ul>	
General	<b>Antenna Connector Type</b>	Two(2) coaxial cable antenna connectors	
	<b>Operating Voltage</b>	5 VDC +/- 10%(VNT6656G6A40)	
	<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>• Typical 382 mA @ Tx mode/high speed</li> <li>• Typical 305 mA @ Rx mode/high speed</li> </ul>	
	<b>Form Factor And Interface</b>	USB 1.1/2.0 interface	
Mechanical	<b>Length</b>	60mm	
	<b>Width</b>	25mm	
	<b>Height</b>	5.52mm	
Environmental Specification	<b>Operating Temperature Condition</b>	The product is capable of continuous reliable operation when operating in temperature of 0 °C to 55°C	
	<b>Non-Operating Temperature Condition</b>	-20°C to 70°C	
	<b>Operating Humidity Condition</b>	10% to 90% non-condensing	
	<b>Non-Operating Humidity Condition</b>	10% to 95% non-condensing	
Certificates	<b>Compliant</b>	FCC/CE/NCC/IC/TELEC/MIC/SRRC	

## Ordering Information

Part Number	Description	Part Number	Description
70GU184A3G62MA5A	IEEE 802.11 b/g Standards USB Module for USA	70GU184A3GU2MADA	IEEE 802.11 b/g Standards USB Dongle for USA
70GO184A3G62MA5A	IEEE 802.11 b/g Standards USB Module for Europe	70GO184A3GU2MADA	IEEE 802.11 b/g Standards USB Dongle for Europe