

Bluetooth™ USB Adapter



Designed using the industry standard Universal Serial Bus (USB), Motorola's Bluetooth USB Adaptor and its companion PC Card are in full-scale production for many of the world's largest PC companies. The Bluetooth USB Adaptor includes all software drivers necessary to support ad-hoc networking (without hub), peer-to-peer file transfers, data synchronization and wireless headset support. The Bluetooth software drivers support Microsoft Windows® 95, 98, ME, NT 4.0 and 2000.

The software suite also includes applications for Bluetooth network management and country settings.

Bluetooth USB Adaptor Features

- Uses an extremely small form factor.
- Compliance with USB Specification version 1.1
- Standby power consumption of less than .4 mA; when active, less than 250 mA



MOTOROLA

digital dna™ 

ELECTRICAL CHARACTERISTICS

Absolute Maximum Ratings

Symbol	Parameter	Min	Max	Unit	Notes
V _{cc}	V _{cc} Supply Voltage with Respect to GND	4.0	7.5	V	
Temperature	Storage Temperature	-30°	+85°	°C	
	Operating Temperature	-5°	+55°	°C	
T _{case}	Case Temperature	-5°	+55°	°C	
Humidity	Storage/ Operating Humidity		93%	%	Note 1

Note 1: No Condensing allowed.

RF CHARACTERISTICS

Parameter	Min	Nom	Max	Unit	Notes
Receiver					
RX Sensitivity		-85		dBm	
IF Bandwidth		1.2		MHz	
C/I CO-Channel (0.1% BER) [BT-Core p24]		12		dB	
C/I 1MHz (0.1% BER)		-3.5		dB	
C/I 2MHz (0.1% BER)		-36		dB	
C/I 3MHz (0.1% BER)		-48		dB	
Image rejection	-10			dB	
Spurious Emissions (30MHz-1GHz)			-57	dBm	
Spurious Emissions (1GHz-12.75GHz)			-47	dBm	
Transmitter					
TX Power, radiated			20	dBm	
TX Power, conducted	16	17.5	18	dBm	
TX Power, conducted		2	4	dBm	
Modulation Index (no ISI)	0.28		0.35		
In Band Spurious Emissions			-20	dBm	at 2MHz
Out of Band spurious Emissions (30MHz-1GHz)			-36	dBm	Operation Mode
Out of Band spurious Emissions (1GHz-12.75GHz)			-30	dBm	Operation Mode
Out of Band spurious Emissions (1.8GHz-1.9GHz)		-50	-30	dBm	Operation Mode
Out of Band spurious Emissions (5.15GHz-5.3GHz)		-50	-30	dBm	Operation Mode

RANGE CHARACTERISTICS

Parameter	Min	Nom	Max	Unit	Notes
Range full duplex connection	100			Meter	Note 2

Note 2: Range test is made in connection full duplex (431kbps/431kbps) in open air and line of sight.

Specification subject to modifications/ Improvements without notice.

HOME PAGE: <http://www.motorola.com/semiconductors/>

Motorola Bluetooth Products Home Page: <http://www.motorola.com/bluetooth/>

MOTOROLA, the Stylized M Logo and all other trademarks indicated as such herein are trademarks of Motorola, Inc. © Reg. U.S. Pat. & Tm. Off. The Bluetooth trademarks are owned by their proprietor and used by Motorola, Inc. under license. All other product or service names are the property of their respective owners. © 2001 Motorola, Inc. All rights reserved. Printed in the U.S.A