



Microtune, Inc. Bluetooth USB Dongle User Manual

**MT0760-UD1P • MT0760-UD2P
MT0760-UDW1P • MT0760-UDW2P**



Host Requirements

The Microtune OneChip Solution for Windows software supports the following operating systems:

- Windows 98SE
- Windows ME
- Windows 2000
- Windows XP

If using other host-based software, please consult the related documentation.

Package Contents

The Microtune MT0760-UDW1P USB Dongle Bundle should contain the following items:

- MT0760-UD1P USB Dongle
- MT-OSW CD

The Microtune MT0760-UDW2P USB Dongle Bundle should contain the following items:

- MT0760-UD2P USB Dongle
- MT-OSW CD

Instructions

Installation

Plug the USB dongle in prior to installing the Bluetooth host software.

- For MT0760-UDW1P or MT0760-UDW2P, install software from included MT-OSW CD

Usage

Plug MT0760-UD1P or MT0760-UD2P USB Dongle into an available USB port on the computer

When connected, the green LED will light

Windows will recognize new hardware

Run host-based Bluetooth software to enable use with a Bluetooth device

Technical Support

If you experience problems, please contact:

Microtune, Inc.
Wireless Connectivity Business Unit
6440 Lusk Blvd. Suite D-205
San Diego, CA 92121 USA
Phone: 858.558.6088
Fax: 858.558.6598





Regulatory Information

This product complies with the regulations of the following organizations:

- FCC
- European Union (EU) and EFTA
- Bluetooth SIG

This equipment is Bluetooth 1.1 qualified according to specification.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Statement according FCC part 15.21

Modifications not expressly approved by Microtune, Inc. could void the user's authority to operate the equipment.

Statement according FCC part 15.105

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Exposure to Radio Frequency Radiation

The radiated output power of this internal wireless radio is far below the FCC radio frequency exposure limits. Nevertheless, the wireless radio shall be used in such a manner that the radio is 20 cm or further from the human body.

The internal wireless radio operates within guidelines found in radio frequency safety standards and recommendations, which reflect the consensus of the scientific community. Microtune, Inc. therefore believes the internal wireless radio is safe for use by consumers. The level of energy emitted is far less than the electromagnetic energy emitted by wireless devices such as mobile phones. However, the use of wireless radios may be restricted in some situations or environments, such as aboard airplanes. If you are unsure of restrictions, you are encouraged to ask for authorization before turning on the wireless radio.

MT0760-UD Hardware Specifications

BLUETOOTH WIRELESS CONNECTION SPECIFICATION		
	MT0760-UD2	MT0760-UD1
Radio class	Class 2 (1.5 dBm)	Class 1 (20 dBm)
Range, 0.1% BER (> 500kbps)	> 10m (30 ft)	> 60m (200 ft)
Power consumption (DM5)	50 mA	120 mA
Frequency range	2.400 to 2.4835 GHz	
Data throughput	1 Mbps (723 kbps effective rate)	
ACL data	DM1/DH1, DM3/DH3, DM5/DH5, AUX1	
Power management	Sniff, park, and hold	
Encryption	128 bit	
Antenna	Horizontal plane (1.7 dBi)	
USB CONNECTION SPECIFICATIONS		
USB type	USB version 1.1 slave	
USB data input	12 Mbps	
USB power input	5V required from host	
USB connector type	Standard USB male type A	
DONGLE GENERAL SPECIFICATIONS		
Dongle temperature range	-20° to +50° C	
Dongle firmware	LM, LC, HCI	
Certification and regulatory	USB1.1, BT1.1, FCC, CE	

MT-OSW Software Specifications

BLUETOOTH HOST SOFTWARE	
Host stacks	HCI, L2CAP, RFCOMM, SDP, OBEX
Application profiles	GAP, SDAP SPP client and server DUN client and server LAN client and server FAX client GEOP, OPP, FTP, SYNC HSP
Operating system support	Windows 98 Windows 2000 Windows ME Windows XP

World Headquarters • Microtune, Inc., 2201 Tenth Street, Plano, TX 75074 USA • Tel: 972-673-1600, Fax: 972-673-1602, E-mail: sales@microtune.com, Web site: www.microtune.com

Wireless Headquarters • Microtune, Inc. Wireless Connectivity Business Unit, 6440 Lusk Blvd. Suite D-205, San Diego, CA 92121 USA • Tel: 858-558-6088, Fax: 858-558-6598

Europe • Microtune GmbH and Co. KG, Marie Curie Strasse 1, 85055 Ingolstadt / Germany • Tel: +49-841-9378-020, Fax: +49-841-9378-024

Japan • Microtune (Japan) Ltd., Kawascho Building 4F, 3-10 Nihonbashi Kodemmacho, Chuo-ku, Tokyo 103-0001 • Tel: +81-3-5652-0250, Fax: +81-3-5652-0251

Taiwan • Microtune (Taiwan) Ltd., 18F-7, No.77, Sec.1, Hsin Tai Wu Rd., Hsi-Chih, Taipei Hsien, Taiwan, R.O.C. • Tel: +886-2-2698-8648, Fax: +886-2-2698-8647

For a detailed list of current sales representatives, visit our Web site at www.microtune.com.

The information in this document is believed to be accurate and reliable. Microtune assumes no responsibility for any consequences arising from the use of this information, nor from any infringement of patents or the rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or other rights of Microtune. The information in this publication replaces and supersedes all information previously supplied, and is subject to change without notice. The customer is responsible for assuring that proper design and operating safeguards are observed to minimize inherent and procedural hazards. Microtune assumes no responsibility for applications assistance or customer product design.

The devices described in this document are not authorized for use in medical, life-support equipment, or any other application involving a potential risk of severe property or environmental damage, personal injury, or death without prior express written approval of Microtune. Any such use is understood to be entirely at the user's risk.

Microtune, MicroTuner, MicroModule, and the Microtune logo are trademarks of Microtune, Inc. All other trademarks belong to their respective companies.

Microtune's products are protected by one or more of the following U.S. patents: 5,625,325; 5,648,744; 5,717,730; 5,737,035; 5,739,730; 5,805,988; 5,847,612; 6,100,761; 6,104,242; 6,144,402; 6,163,684; 6,169,569; 6,177,964; 6,218,899 and additional patents pending or filed.

Entire contents Copyright © 2001 Microtune, Inc.

Products not to be used in life support or safety applications.