

# USB Product Information: Tested MP3 Players, Mobile Phones and USB Devices



## Overview

**With the USB audio interface (option code 6FL for BMW), suitable MP3 players such as the Apple iPod can be connected to the vehicle via a USB interface and operated by means of the vehicle's input elements.** Along with MP3 players, mobile phones and USB sticks can also be connected to the USB audio interface to enable playback of audio files stored on the USB stick. When connecting a mobile phone with USB interface to the USB audio interface, it is important to bear in mind that some mobile phones exclude simultaneous Bluetooth operation of the phone. In other words there is no assurance that calls can be received or initiated.

**It is possible to access the audio files directly via a playlist or you can search by musical genre, artist, album and track.** The audio files, however, can only be sorted and displayed correctly in the vehicle if the file information (e.g. ID3 tags) stored on the MP3 player contain Latin characters only. Only audio files are compatible with the interface. Access to other files (e.g. videos) is not possible.

**Due to the variety of MP3 players, mobile phones and USB sticks available on the market and the multiplicity of specifications that can vary from device to device. Flawless operation with the USB audio interface cannot be ensured for all devices.** The compatible devices tested by the BMW Group are therefore communicated on a regular basis.



## General Conditions

**The following device classes are supported by the USB audio interface; see the information and tables below for details:**

- Apple iPod and Apple iPhone
- MP3 players and USB sticks (USB mass memory as per "USB Mass Storage Class" specification)
- MP3 players with Media Transfer Protocol (MTP)
- Mobile phones with USB mass storage (in accordance with specification "USB Mass Storage Class") or MTP

An "incompatible device" message displayed in the car indicates that an attempt has been made to connect a device belonging to a class that is not suitable for use with the interface.

**Apple iPods are connected to the vehicle with the "adapter cable for Apple iPod/iPhone" (Y-adapter 30-pin plug to USB and AUX-IN) available as an accessory from the BMW Group.** This adapter enables quick access to the iPod's audio files, while simultaneously charging the device.

Please bear in mind that DRM-protected music tracks cannot be played via the USB audio interface.

**Other MP3 players or USB sticks can be connected to the vehicle with the aid of a USB cable.** The external device also receives its power supply via this cable (max. 500mA). Please be advised that the device should not be connected to the vehicle's 12V power socket at the same time.

The USB audio interface supports the mainstream compression formats MP3 (mp3), AAC (aac, m4a, m4b), WAV/PCM (wav) and WMA (wma,asf) and playlists in M3U format.

Persons considering leaving MP3 players or USB sticks in the car must comply with the applicable instructions for use. It is advisable not to leave MP3 players or USB sticks in the car for a prolonged period, due to extreme ambient conditions such as temperature or relative humidity caused by an enclosed environment.

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### Apple iPod/iPhone

Apple iPods are generally supported from the 4<sup>th</sup> generation onward, including the iPod nano, iPod mini, iPod Touch, and iPhone. The Click Wheel is the identifying feature of 4G devices and later. Older models have a scroll wheel or touch wheel and are not supported.

Apple iPods have to be connected by means of the “adapter cable for Apple iPod/iPhone” (Y-adapter, 30-pin plug to USB and AUX-IN) available as an accessory from the BMW Group. The iPod Touch, iPhone and devices for Mac OS are supported only if this adapter cable is used. The adapter cable is also necessary for playing copy-protected music files, for showing playlists, and for quick access to the contents of the iPod.

Skipping forward/back in a podcast takes the iPod to the start of the next/current podcast, respectively. It is not possible to skip to chapter markers.

Only the soundtrack of videos is played back.

The iPod shuffle can be used only as a USB device with FAT file system. For more details visit: <http://docs.info.apple.com/article.html?artnum=61131>

If the iPod freezes, one way of remedying the situation is to reset the device. For details visit: <http://support.apple.com/kb/HT1320>

Please note that iTunes can update the iPod's software automatically, which could compromise the interplay of the iPod with the USB audio interface. Select “About” from the main menu to view details of the software version installed on the iPod. More information is posted on the Apple websites.

To check the software version: <http://docs.info.apple.com/article.html?artnum=60984>

To identify the iPod model: <http://docs.info.apple.com/article.html?artnum=61688>

An iPod can be disconnected from the vehicle at any time.

### MP3 Players and USB Sticks

MP3 players with Media Transfer Protocol (MTP) are supported. Some MTP devices can be switched to Mass Storage Class mode to store data files. See the instructions issued with the MP3 player for details.

MP3 players compliant with the USB Mass Storage Class specification are supported, as are USB sticks. These devices have to be formatted with the FAT file system. Only the files in the first partition of the external drive will be recognized and displayed. With some MP3 players it is necessary to start by switching on the USB connection and activating the mass-storage mode (USB Mass Storage Class) before it can be accessed. See the instructions issued with the MP3 player for further reference.

Once the MP3 player or USB stick has been connected to the vehicle for the first time, information about the music content is uploaded to the vehicle. This enables convenient selection by musical genre, artist, album, track and playlist. If a device containing a large volume of data is connected, the device's directory structure provides the only way of accessing the music until full synchronization can be realized. The time it takes for synchronization to complete and the speed of response to inputs depend on the storage capacity, the technology of the device and on the number of music tracks stored on their type. A device with 8GB flash memory will take about 10 minutes to upload.

USB hard discs and USB hubs or card readers with multiple slots cannot be used.

The use of USB memory sticks with an integrated hard disc is not recommended. Tests have shown that adequate audio quality cannot be ensured for these devices.

MP3 players and USB sticks can be disconnected from the vehicle at any time.

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### Mobile phones

After connecting the mobile phones to vehicle via USB cable or with the corresponding USB snap-in adapter, observe the display on your mobile phone. On most mobile phones, a certain USB mode must be selected or set in advance. The mode recommended by BMW can be found in the last two table columns on page 6. As a general principle, the mobile phone should be linked to the USB audio interface as a Bluetooth device before connection. Some mobile phones only support one storage medium in combination with the USB audio interface, i.e. the audio files must be stored either in the mobile phone memory or on the smart card.

### Support

If your MP3 player or USB stick does not work correctly with the USB audio interface, the problem may be due to defective or specially coded audio files (e.g., bit rate higher than 256 kbit/s). Always consult the device instructions for details.

When an MP3 player is synchronized on a PC, it sometimes happens that the software of the MP3 player is updated automatically and under certain circumstances this can have a negative effect on the MP3 player's compatibility with the USB audio interface.

Given the multiplicity of MP3 players and USB sticks available on the market and the differences in technology, perfect in-car operation cannot be ensured. The devices that have been tested by the BMW Group are listed in the tables below.

**If you have questions please do not hesitate to consult your authorized BMW Retailer.**

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### BMW Tested MP3 Devices

Manufacturer / Brand	Model	Tested Firmware Release	Storage Capacity	Notes
Apple	iPod Touch	3.1.1	8GB, 16GB	a1
	iPod Classic	1.1.1	160GB	a2
	iPod Video (5th generation)	1.3	30GB, 60GB	
	iPod Nano (3rd generation)	1.1.2	4GB, 8GB	
	iPod Nano (4th generation)	1.0.4	16GB	
	iPod Nano (5th generation)	1.0.1	16GB	
Cowon	D2	2.46	2GB	b3
	iAudio U3	1.29	1GB, 2GB	b1
	iAudio 6	1.27	4GB	b3
	iAudio 7	1.13	4GB	b3
	iAudio S9	2.09	8GB	b3
Creative	MuVo V100	1.04.03e	2GB	
	Zen stone Plus	1.03.01	2GB	
	Zen Mosaic	1.04.06	4GB	
	Zen X-Fi	1.04.08	16GB	
	Zen X-Fi 2		8GB	
iRiver	X20	1.04	2GB	b3
	E100	1.15 G_M	4GB	b2
	Spinn	1.21M	8GB	b2
	YP-K3	3.09 WA JN	4GB	b1
	YP-P2	2.15	4GB	
	YP-T10	1.20	4GB	
	YP-Q1	1.23 EU	16GB	
SanDisk	Sansa Clip	01.01.18F	2GB	b3
	Sansa Fuze	1.2.09F	2GB	
	Sansa View	1.2.09F	8GB	
	Sansa e260	01.01.11E	4GB	b1
	Sansa e280	01.02.15E	8GB	b1

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<b>Sony</b>	NWZ-A815	V1.00	2GB	
	NWZ-A826	V1.00	4GB	
	NWZ-A828	V1.00	8GB	
	NWZ-A829	V1.00	16GB	
	NWZ-S515	V1.00	2GB	
	NWZ-S615F	V1.00	2GB	
	NWZ-S639F	V 1.10	14GB	
<b>Trekstor</b>	i.Beat blaxx	030.210.720	4GB	
	i.Beat cebrax	2.611.128	1GB	
	i.Beat censo	2.620.571	2GB	
	i.Beat motion	01.01.0032	2GB	
	i.Beat move S	01.03.0109	8GB	
	i.Beat vision	U3.15	2GB	
	i.Beat xtension FM	2.09.92.08	2GB	

## Issue List

<b>Apple iPod</b>		<b>MP3 players and USB sticks</b>	
a1	The "Repeat track" function is not supported.	b1	When the vehicle restarts, playback might not resume at the point where it was interrupted.
a2	The podcasts might not be sorted in the vehicle in the same order as on the iPod.	b2	Device has to be switched on manually when connected to the USB audio interface.
		b3	The MTP device can be switched to USB Mass Storage mode.

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### BMW Tested Mobile Phones

Manufacturer / Brand	Model	Tested Firmware Release	USB Mode	Automatic mode detection
<b>Apple</b>	iPhone 3G	3.1.2	-	Yes
<b>Motorola</b>	RAZR 2 V9	A0.02.03R3	Memory card	Yes, after one-off permanent presetting
<b>Nokia</b>	3109c / 3110c	V5.5	Print and media	Must be selected every time on connection
	5800 XM	200.0.025	Mass storage (memory card)	Yes, after one-off permanent presetting, subject to Bluetooth pairing beforehand
	6151	V4.10	Data memory	Must be selected every time on connection
	6233	V5.60	Data memory (memory card)	Must be selected every time on connection
	6300	V5.20	Print and media	Preset and confirm prompt every time on connection
	6300i	V5.20	Data and media	Yes, after one-off permanent presetting
	6303c	V10.40	Mass storage (memory card)	Yes, after one-off permanent presetting
	6500c	V9.45	Print and media	Yes
	6500s	V6.6	Print and media	Yes
	6700c	V10.40	Print and media	Yes
	E52	V021.013	Mass storage (memory card)	Yes
	E63	100.21.110	Mass storage (memory card)	Yes, after one-off permanent presetting
	E66	102.07.81	Mass storage (internal)	Yes, after one-off permanent presetting
	E71	100.07.76 RM346	Mass storage (memory card)	Yes, after one-off permanent presetting
	N78	12.046	Mass storage (memory card)	Yes, after one-off permanent presetting
	N79	11.049	Mass storage (memory card)	Yes, after one-off permanent presetting, subject to Bluetooth pairing beforehand
	N85	11.047	Mass storage (memory card)	Yes, after one-off permanent presetting
	N96	12.043	Mass storage (internal)	Yes, after one-off permanent presetting
<b>Sony Ericsson</b>	C702	R3EA031	Media transfer	Yes, after one-off permanent presetting
	C902	R3EA031	Media transfer	Yes, after one-off permanent presetting
	C903	R3EA032	Media transfer	Yes, after one-off permanent presetting
	C905	R1DA034	Media transfer (internal)	Yes, after one-off permanent presetting
	K850i	R1EA037	Media transfer	Yes, after one-off permanent presetting
	W705	R1DA034	Media transfer	Yes, after one-off permanent presetting
	W890i	R1EA037	Media transfer	Yes, after one-off permanent presetting
	W902	R3EA031	Media transfer	Yes, after one-off permanent presetting
	W910i	R1EA037	Media transfer	Yes, after one-off permanent presetting