DENSION
LEADING IN CONNECTED ENTERTAINMENT

DAB+U
COMPATIBILITY
CATALOGUE
ENJOY DAB RADIO WITH US!

IN-CAR DAB RADIO
RECEIVER INTEGRATED
THROUGH USB

DENSION

DAB · DAB+ Digital Audio Broadcasting · DIGITALRADIO · digitalradio ✓ Approved Product · Digital Radio

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COMPATIBILITIES FOR AFTERMARKET HEAD UNITS AND HIFI SYSTEMS

INTRODUCTION

INTRODUCTION

Dension DAB+U compatibility catalogue was created to show the possible compatibilities with best buffer time and the proper configurations for the specific head units of the different car brands.

▸ In the first section of this catalogue you can see the description of the DAB+U, package content and accessories.
▸ In the second part there are all the car brands with illustrations of their tested head units.
▸ At the end of this compatibility catalogue you can find information regarding other members of the DAB family.

COMPATIBILITY AND CONFIGURATION:

In case of some specific head units, it is necessary to use radio specific configuration files which can be downloaded from www.dension.com.
This catalogue gives you a guide for the configuration file which provides the best buffer, however due to other external factors you may need to use an other configuration file which we do not list in this catalogue next to the picture of the head unit of your car.
We have tested various types of configuration in order to find the shortest buffer time for the different head units of the car brands. Not all of these configurations are compatible with all the head units therefore we mark only the best of the compatible ones and the default (factory) configuration with the value of the buffer time. In case there is no value, then the device only works after changing the configuration file on it! The buffer time is different per head unit and may vary according to car types and car brands. In this catalogue you will see 5 categories according to different buffering time value illustrated with yellow stars.

1–7 seconds: ★★★★★
8–15 seconds: ★★★★
16–29 seconds: ★★★
30–60 seconds: ★★
more than a minute: ★

Please note that each head unit can have different hardware or software version. Due to this reason you may experience different buffer time in different cars with the same head unit.
The default configuration is equal with K3 configuration.
We recommend to ask the installer to check and configure the DAB+U with the best configuration file during the installation and check the system before finalizing it.

DAB+U

USE IT IN YOUR CAR, OFFICE OR AT HOME!
The Dension DAB+U Digital Radio Receiver is a USB powered solution for receiving Digital Audio Broadcast music in your car or other devices with an 'mp3 playback from USB' function.

DISPLAY
Station name is displayed as file name of an mp3

CONNECTION
▸ Connects to a standard USB port
▸ Works like USB flash drive with mp3 files

FEATURES
▸ Controlled through the original media menu of the stereo
▸ Automatic Buffer Size Assessment (ABSA)
▸ Home or office use also possible
▸ Easy browsing – DAB stations appear as virtual mp3 files

Package Contents:
▸ Device (DAB+U module) **1**
▸ USB A-A (Male to Male) connector **2**
▸ Power wire for active antenna (with 2-pin micro fit) and installation accessories **3**
▸ Quick Start Guide

1 **2** **3**

TESTED BRANDS

DAB ANTENNA
(DAB1ANT)

Let's choose the Dension Windscreen mount DAB antenna for your DAB receiver to enjoy digital radio! Windscreen mount DAB car antenna with SMB connector.
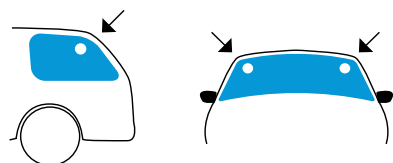
Features
▸ Amplified antenna with external 12V connector
▸ Easy to install and remove
▸ Neat look
▸ SMB female connector
▸ Comes with the 12V connector
▸ Compatible with all Dension DAB receivers
▸ Windscreen mount
▸ Self-adhesive
▸ Receiving Frequency 170MHz ~ 240Mhz
▸ 3m long cable

Device compatibility
▸ Any DAB receiver device with an SMB connector – including the Dension DAB family

DENSION WINDSCREEN MOUNT DAB ANTENNA IS NOT COMPATIBLE WITH INFRARED WINDSHIELD

3,0 M CABLE   **EASY TO INSTALL & REMOVE**   **EXTERNAL POWERED**
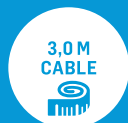
CONNECTOR PORT FOR 'PASS THROUGH USB'
(EXT2CP2)

Enables the 'Pass through USB' function on the DAB+U (DBU2GEN, DBU3GEN).

Features
▸ Easy switching between USB and DAB+U
▸ You can use your USB connector without unplugging the DAB+U
▸ Connects to the DAB+U through USB and a connector port
▸ Functions as a USB extension kit
▸ DAB+U can be hidden from sight (e.g.: behind the dashboard)

DAB+U
GENERAL USER GUIDE

DBU-9203-3

1. INTRODUCTION
The Dension DAB+U device is an easy to install solution for receiving Digital Audio Broadcast in cars or other media devices where USB connection is available with mp3 playback capability.

Technical details
- Supports DAB, DAB+ and DMB-R (DMB-A)
- Compatible with Band III frequency range
- Service following
- SMB Antenna connector

Package contents
- DAB+U device
- USB 'A-A' cable (Male to Male)
- Power wire for active antenna
- 2x 3M adhesive tape
- 2x cable tie
- Cable grommet
- User guide

Optional accessories
- DAB passive (non-amplified) antenna
- DAB active (amplified) antenna with external power source (DAB1ANT)
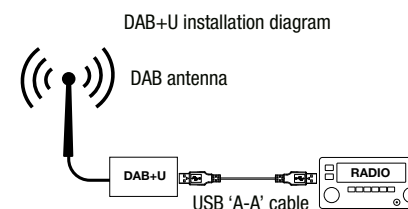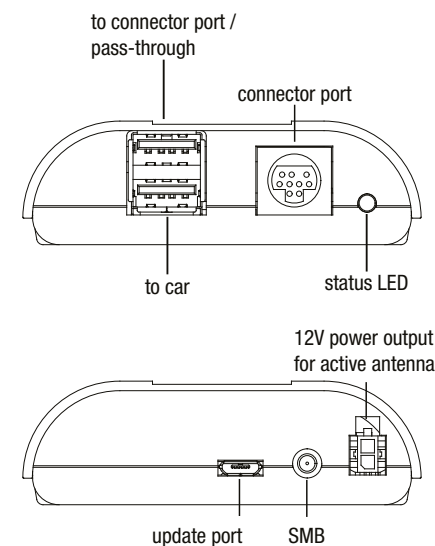
2. 'ABSA'
The Dension DAB+U device is equipped with an 'Automatic Buffer Size Assessment' (ABSA) function. Since the buffer size may be different in each playback device (head unit) the Dension DAB+U detects the buffering time. This is necessary for the device to function correctly. Upon first operation the assessment process runs automatically which takes about 5 minutes. During this period please do not switch station otherwise the process will start again. After this process the proper amount of buffer is used through future operations. Depending on the playback device the buffer time may vary between 15-40 seconds, so it is not possible to have 'radio like' station changing, but we designed the product to be the most versatile possible.

3. DEVICE INSTALLATION
Plug the DAB antenna (passive or active with external power source) to the Dension DAB+U receiver. Connect the power cable (12V) to the antenna (only if you are using an active aerial). Use the USB 'A-A' (Male to Male) cable to connect the bottom USB connector of the DAB device to the Radio. Please turn the ignition ON and check the status indicator LED on the DAB+U hardware. The steady light means that the DAB+U receives electric power. If the LED does not light up when the device is connected please check the power connection.

4. POSITIONING THE DAB ANTENNA
The DAB reception and performance depends on many factors, both in the vehicle and other external conditions. Before you start the antenna installation and/or the product testing, please make sure that you have a good DAB coverage and reception.

to connector port / pass-through

connector port

to car

status LED

12V power output for active antenna

update port

SMB

DAB+U installation diagram

DAB antenna

DAB+U

USB 'A-A' cable

RADIO

Important notes:
- If your vehicle comes with metalized windscreen (e.g. windscreen heating) an external antenna is required
- The DAB module supports both amplified and non-amplified aerials. For amplified antennas 12V power is provided by the DAB+U receiver via the 2-pin molex connector

Please read the manual of the antenna carefully and follow the instructions in order to find the correct place for the installation. It's better to always test the DAB functions before finalizing the installation.

5. CONFIGURATION
In case of some specific head unit it may be necessary to use radio specific configuration files which you can download from www.dension.com.

To configure please follow the steps below.
1. Plug the DAB+U device into your PC with a micro-USB cable
2. Wait until it is recognized
3. Unzip and copy the configuration file to the root folder of the device
4. The update process will start automatically. When it is finished, the device will be disconnected and reconnected automatically
5. The process was successful if the config file disappeared from root folder

6. OPERATION
Switch your car radio on and select the DAB+U module as a USB source from your radio. First you need to perform a DAB scan to find all the available stations in your area, therefore please go to the 'Settings' file folder and select / play 'Scan.mp3'. The scanning process usually takes 40-60 seconds (within this time the system displays 'Scanning' as announcement). When it is finished, the DAB device will reboot and the first DAB channel from the list of the available stations will be selected and played automatically once the buffering is finished (every station needs to buffer after selection). Please note: all available stations will be listed as mp3 files in the 'Stations' folder after scanning.

Buffering (the device loads the data ahead of the player) is required to compensate internal (USB playback function of the radio) or external (signal loss) factors in order to keep the playback from stuttering. The total buffering time usually takes 15-40 seconds (within this time the status indicator LED is flashing) while the device announces 'Please wait'. Please note: This is playback device dependent. For more information please refer to chapter #2. 'ABSA'. During playback the station name will be displayed on the radio screen or on the cluster display (radio dependent). You may need to press additional button(s) e.g. 'Disp' / 'Info' to change the type of information displayed. You can select a different channel by pressing the next / previous track button on your radio or steering wheel. Alternatively you can browse and select the desired station from the list of mp3 files (available DAB stations) in the 'Stations' folder of your USB source menu on your radio.

Important notes:
The 'Scan' button / function (available on most of the mp3 capable devices) plays certain amount of time from all available files on the drive, therefore it CANNOT be used to rescan the DAB stations. Please do not use this function because it might result in malfunction. To rescan the DAB stations please always use the 'Scan.mp3' file in the 'Settings' folder.
• When traveling frequently between different locations it is recommended to rescan all stations since the items in the previously saved list might not be available anymore
• This device has 'Service following' support, so the currently played station might be available even when moving from

the area of the first transmitter, because the DAB+U automatically switches to the next available transmitter if the station is available on that one too. However please note that a rescan might still be needed to find the local transmissions.
• If you are listening to a station while switching off the device, the last played station name will be duplicated when turning the device back on and the station's name will be marked with '!'. This is part of the normal operation and will not cause any malfunction

7. ABOUT THE 'SETTINGS' MENU OPTIONS
The following items are available in the 'Settings' folder:
• About: provides information about the DAB device (e.g. software version)
• Scanning: use this option to scan all available stations in your area

8. CONNECTOR PORT
The connector port is an optional accessory allowing you to change the playback source from DAB radio to a USB-drive without unplugging your USB drive.
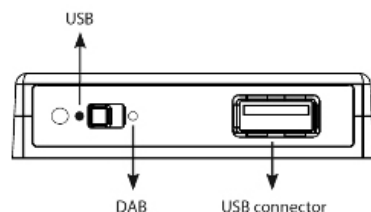
The connector port has to be connected to the Round 9-pin connector of the DAB+U and the upper USB connector on the device. If the switch is set to DAB mode, the DAB+U is in active mode and you can listen to the DAB radio. When the switch

is in USB position the DAB+U will be in bypass mode (DAB off) and you are able to access the content of the flash drive connected to the USB connector on the connector port.

9. FIRMWARE UPDATE
We recommend to visit our website on a regular basis to get software updates for your product to enjoy the best performance and more features. Please follow the steps explained there to perform a successful update process.

10. TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	SOLUTION
No DAB channels available after scanning	1. Antenna position is not correct / not connected properly / compatible / or faulty 2. Poor DAB coverage	1. Check the installation and the specifications of the antenna 2. Test DAB reception with a different device or run scan at a different location
Playback is intermittent	Bad DAB coverage or antenna position	Try to change the antenna position
Missing channel	DAB signal strength is weak	Repeat scanning later
Station is selected but not played	Station is not available at the given territory	Apply scanning to see the stations currently available

FURTHER ASSISTANCE
If you need further assistance in using your Dension product, please contact your local supplier or visit www.dension.com.

11. DISCLAIMER AND WARRANTY
If your car's electrical system begins to behave erratically, please disconnect the DAB+U device physically immediately and have it checked by your installer. Dension and its authorized distributors and retailers are not liable for any incidental consequential or indirect damages or loss and do not assume liability for any diagnostic fees.

Warranty
Dension devices carry a one-year limited warranty that protects you from defects in material and workmanship of products sold by Dension or its authorized distributors and retailers. Dension does not warrant any installation work or assume liability for any damage caused due to negligence, improper installation or operation. For warranty claims, proof of purchase is required.

12. SUPPORT AND COMPATIBILITY
Please check the download section for the latest firmware version and product documentation of your DAB+U device, as these may provide additional features or easier use of the product.

COMPATIBILITY
Please visit our website at www.dension.com and check the list of recommended antennas.

COMPATIBILITIES FOR FACTORY FITTED HEAD UNITS

HOW TO USE OUR COMPATIBILITY CATALOGUE

In our catalogue you will find charts which will help you to find out the best configuration for your DAB+U device. Please check this explaination chart for further guidence.

HOW TO CONFIGURE YOUR DEVICE

STEP 1 — Download the proper configuration package from our website.

STEP 2 — Plug the DAB+U device into your PC.

STEP 3 — Wait until it is recognized.

STEP 4 — Unzip and copy the configuration file to the root folder of the device.

STEP 5 — The update procedure will start automatically. When it is finished, the device will be disconnected and reconnected automatically (please do not unplug the device from the PC before the configuration is finished).

NAME OF THE HEAD UNIT	CAR MODEL	MODEL YEAR	
	Here you will find the car models which were produced with the actual head unit.	In this section you will see the model year of the car models which were tested with our DAB+U.	
	CONFIGURATION	BUFFER TIME	RATING
	In this section you will see the name of the configuraiton files which were tested with the DAB+U. The default configuration which is uploaded to the device in the factory is the K3 configuraiton.	The buffer time is measured during our tests with configuration files. In this section you can find how much time you will need to wait until the station starts playing after turning the device on or selecting an other DAB station.	One to five stars rating according the next chart:
WHERE YOU SEE THE ABOVE GENERIC HEAD UNIT DRAWING, UNFORTUNATELY WE DO NOT HAVE THE PICTURE OF THAT SPECIFIC HEAD UNIT.			1–7 sec. ★★★★★
			8–15 sec. ★★★★
			16–30 sec. ★★★
			31–60 sec. ★★
			more than a minute: ★

Alfa Radio 5″

RADIO 5″	CAR MODEL	MODEL YEAR	
	Giulietta	since 2015	
	Mito	since 2014	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K8	10 sec.	★★★★

Alfa Uconnect Navigation 5″

UCONNECT NAVIGATION 5″	CAR MODEL	MODEL YEAR	
	Giulietta	since 2015	
	Mito	since 2014	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K8	4 sec.	★★★★★

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Audi MMI 3 touch

MMI 3 TOUCH	CAR MODEL	MODEL YEAR
	A6	2012–2014
	A7	2011–2014
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	23 sec.	★ ★ ★
	K8	12 sec.	★ ★ ★ ★
	K13	12 sec.	★ ★ ★ ★

BMW CCC professional

CCC PROFESSIONAL	CAR MODEL	MODEL YEAR
	1 Series, E81/E82/E87/E88	2004–2011
	3 Series E90/E91/E92/E93	2005–2011
	5 Series, E60/E61	2003–2010
	X5, (E70)	since 2007
	X6, (E71)	since 2008

CONFIGURATION	BUFFER TIME	RATING
default (K3)	30 sec.	★★★
K16	9 sec.	★★★★

BMW NBT (SW version starts with MN-)

NBT (SW VERSION STARTS MN-)	CAR MODEL	MODEL YEAR
	1 Series, F20	since 2012
	2 Series, F22/F23	since 2012
	3 Series, F30	since 2012
	4 Series, 32/F33/F36	since 2012
	5 Series, F10	since 2012
	7 Series, F01/F02	since 2012

CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K61	5 sec.	★★★★★

BMW CIC (SW version starts with MX-)

CIC (SW VERSION STARTS MX-)	CAR MODEL	MODEL YEAR
	1 Series, E81/E82/E87/E88	2008-2012
	3 Series, E90/E91/E92/E93	2008-2012
	5 Series, E60/E61	2008-2012
	5 Series, F07/F10/F11	2009-2012
	6 Series, E63/E64	2009-2012
	7 Series, F01/F02	2008-2012
	X5, E70	2009-2012

	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K62	10 sec.	★★★★

BMW CIC (SW version starts with MV-)

CIC (SW VERSION STARTS MV-)	CAR MODEL	MODEL YEAR
	1 Series, E81/E82/E87/E88	2008-2013
	3 Series, E90/E91/E92/E93	2008-2013
	5 Series, E60/E61	2008-2013
	5 Series, F07/F10/F11	2009-2013
	6 Series, E63/E64	2009-2013
	7 Series, F01/F02	2008-2013
	X5, E70	2009-2013

	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K62	10 sec.	★★★★

Chevrolet Advent OGM1

ADVENT OGM1	CAR MODEL	MODEL YEAR
	Suburban	2010–2014
	CONFIGURATION	BUFFER TIME	RATING

CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K7	25 sec.	★★★

Citroën RT6 (eMyWay)

RT6 (EMYWAY)	CAR MODEL	MODEL YEAR
	C4	since 2011
	C5	since 2008
	DS3	since 2011
	DS4	since 2011
	DS5	since 2012
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	N/A	
K2	7–15 sec.	★★★★

Citroën Navigation

NAVIGATION	CAR MODEL	MODEL YEAR
	C4 Aircross	since 2012
	CONFIGURATION	**BUFFER TIME**	**RATING**
	default (K3)	N/A	
	K7	2–4 sec.	★★★★★

Citroën RD45

RD45	CAR MODEL	MODEL YEAR
	Berlingo	since 2009
	C2	2005-2009
	C3	since 2010
	C3 Picasso	since 2009
	C4	since 2011
	C4 Aircross	since 2012
	C5	since 2008
	Crosser	2010-2012
	Grand C4 Picasso	since 2009
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	N/A	
K24	14 sec.	★★★★

C4 AIRCROSS

Dacia Navigation

NAVIGATION	CAR MODEL	MODEL YEAR
	Duster	since 2013
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	120 sec.	★
	K7	15 sec.	★★★★

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DAF Navigation TNR

NAVIGATION TNR	CAR MODEL	MODEL YEAR
	CF	since 2011
	LF	since 2008
	XF	since 2011
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	23 sec.	★ ★ ★
K23	12 sec.	★ ★ ★ ★
K10	20 sec.	★ ★ ★

Dodge Uconnect 8.4

UCONNECT 8.4	CAR MODEL	MODEL YEAR
	Challenger	since 2015
	Charger	since 2011
	Dart	since 2013
	Durango	since 2014
	Ram	since 2013
	Viper SRT	since 2015
CONFIGURATION	BUFFER TIME	RATING
K3	N/A	
K65	8 sec.	★★★★

HI   FM 100.9   9:15   S   1° out.   HI

Settings > System Information

Software Version: 16.25.03
NaviServer: 9.10.32.645006
Map Database:
   CMCN4VP4NA;HMNA2015Q2;20160218
Request Code:
   CVM4-59RG-VT21-G5LX-R61G-A4
13 items in list

Radio   Media   Controls   Apps   Climate   Nav   Phone

Ford Visteon CD/Radio

VISTEON CD/RADIO	CAR MODEL	MODEL YEAR
	B-Max	since 2012
	C-Max	2008–2010
	Fiesta	2008–2012
	Focus	2009–2010
	Galaxy	since 2008
PHOTO NOT AVAILABLE	KA	since 2009
	Kuga	2008–2012
	Mondeo	2008–2010
	S-Max	since 2009
	Transit Connect	2010–2013

CONFIGURATION	BUFFER TIME	RATING
default (K3)	20 sec.	★★★
K2	10 sec.	★★★★
K10	10 sec.	★★★★

Ford Sony CD/Radio

SONY CD/RADIO	CAR MODEL	MODEL YEAR
	C-Max	2008–2012
	Focus	2009–2010
PHOTO NOT AVAILABLE	Galaxy	since 2008
	Kuga	2008–2012
	S-Max	since 2009

CONFIGURATION	BUFFER TIME	RATING
default (K3)	17 sec.	★★★
K8	4 sec.	★★★★★
K7	7 sec.	★★★★★

Source: http://b-max.fordmedia.eu/photos/Ford2015_B-MAX_UK_012.jpg

Ford Sony CD/Radio 3,5″ (Matrix display)

SONY CD/RADIO 3,5″ (MATRIX DISPLAY)	CAR MODEL	MODEL YEAR
	C-Max	2008–2012
	Focus	2009–2010
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	20 sec.	★★★
K2	10 sec.	★★★★
K10	10 sec.	★★★★

Ford Sony Sync CD/Radio 4.2″ TFT

SONY SYNC CD/RADIO 4.2″ TFT	CAR MODEL	MODEL YEAR
	B-Max	since 2012
	C-Max	since 2011
	Fiesta	since 2013
	Focus	since 2014
	Kuga	since 2013
	Transit	since 2014
	Transit Connect	since 2014
	Transit Custom	since 2013
	Transit Tourneo	since 2014
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	20 sec.	★★★
K8	5 sec.	★★★★★
K7	6 sec.	★★★★★

Ford Sync 5″ Navigation

SYNC 5″ NAVIGATION	CAR MODEL	MODEL YEAR
	B-Max	since 2012
	C-Max	since 2011
	Fiesta	since 2013
	Focus	2011-2013
	Galaxy	since 2008
	Kuga	since 2014
	Mondeo	2011-2014
	S-Max	since 2009
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	N/A	
K8	3 sec.	★★★★★

Ford SD Navi (7″ touchscreen)

SD NAVI (7″ TOUCHSCREEN)	CAR MODEL	MODEL YEAR
	C-Max	2008-2010
	Galaxy	since 2008
	Kuga	2008-2012
	Mondeo	2008-2014
	S-Max	since 2009
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	8 sec.	★★★★
K8	3 sec.	★★★★★
K9	5 sec.	★★★★★

Ford Sync 2 Navigation (8″ touchscreen)

SYNC 2 NAVIGATION (8″ TOUCHSCREEN)	CAR MODEL	MODEL YEAR
	Focus	since 2014
	Mondeo	since 2015
	S-Max	since 2015
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	N/A	
K10	9 sec.	★★★★

Ford SYNC 3
(SW version 2.0 Build 16074)

SYNC 3 (SW VERSION 2.0 BUILD 16074)	CAR MODEL	MODEL YEAR
	Mustang	since 2016
	Fiesta	since 2016
	Focus	since 2016
	Fusion	since 2017
	C-MAX Hybrid	since 2016
	C-MAX Energi	since 2016
	Taurus	since 2016
	Edge	since 2016
	Flex	since 2016
	Escape	since 2016
	Explorer	since 2017
	Expedition	since 2017
	Transit Connect	since 2017
	F-150	since 2016
	Transit	since 2016
	Super Duty	since 2017

CONFIGURATION	BUFFER TIME	RATING
K3	N/A	
K66	6 sec.	★★★★★

Premium Radio (Boom! Box 6.5GT CVO)

PREMIUM RADIO (BOOM! BOX 6.5GT CVO)	CAR MODEL	MODEL YEAR
	Electra Glide Ultra Classic	2016-
	Road Glide Special	2016-
	Street Glide Special	2016-
	Tri Glide Ultra Classic	2016-
	Ultra Limited	2016-
CONFIGURATION	**BUFFER TIME**	**RATING**
K3	N/A	
K78	8 sec.	★★★★

Premium CVO Radio (Boom! Box 6.5GT CVO)

PREMIUM RADIO (BOOM! BOX 6.5GT CVO)	CAR MODEL	MODEL YEAR
	CVO Limited	2016-
	CVO Road Gilde Ultra	2016-
	CVO Street Glide	2016-
CONFIGURATION	**BUFFER TIME**	**RATING**
K3	N/A	
K78	8 sec.	★★★★

Standard Radio (Boom! Box 4.3 Standard)

PREMIUM RADIO (BOOM! BOX 6.5GT CVO)	CAR MODEL	MODEL YEAR
	Electra Glide Ultra Classic	2016-
	Road Glide	2016-
	Street Glide	2016-
CONFIGURATION	**BUFFER TIME**	**RATING**
K3	N/A	
K78	8 sec.	★★★★

Honda CD/Radio

CD/RADIO	CAR MODEL	MODEL YEAR
	Accord	since 2014
	CONFIGURATION	**BUFFER TIME**	**RATING**
	default (K3)	N/A	
	K13	3 sec.	★★★★★

Jaguar InControl Touch

INCONTROL TOUCH	CAR MODEL	MODEL YEAR
	XE	since 2015
	XF	since 2015
	F-Pace	since 2016
	F-Type	since 2013
CONFIGURATION	BUFFER TIME	RATING
K3	N/A	
K65	8 sec.	★★★★

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Jeep Uconnect (6,5″)

UCONNECT (6,5″)	CAR MODEL	MODEL YEAR
	Renegade	since 2014
CONFIGURATION	BUFFER TIME	RATING
default (K3)	22 sec.	★★★
K8	10 sec.	★★★★
K7	11 sec.	★★★★

Jeep Uconnect 8.4

UCONNECT 8.4	CAR MODEL	MODEL YEAR
	Grand Cherokee	since 2011
	Cherokee	since 2014
CONFIGURATION	BUFFER TIME	RATING
K3	N/A	
K65	8 sec.	★★★★

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Kia Cee'd Navigation

CEE'D NAVIGATION	CAR MODEL	MODEL YEAR
	Cee'd	since 2013
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K7	9 sec.	★★★★
K8	10 sec.	★★★★

Kia Picanto Navigation

PICANTO NAVIGATION	CAR MODEL	MODEL YEAR
	Picanto	since 2012
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K7	9 sec.	★★★★
K6	11 sec.	★★★★

Kia Sorento Navigation

SORENTO NAVIGATION	CAR MODEL	MODEL YEAR
	Sorento	since 2013
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K8	6 sec.	★★★★★

Kia Sportage Navigation

SPORTAGE NAVIGATION		CAR MODEL	MODEL YEAR	
		Sportage	2011–2014	
		CONFIGURATION	**BUFFER TIME**	**RATING**
		default (K3)	N/A	
		K7	9 sec.	★★★★
		K8	10 sec.	★★★★

Lexus Basic

BASIC	CAR MODEL	MODEL YEAR	
	CT	since 2012	
	CONFIGURATION	**BUFFER TIME**	**RATING**
	default (K3)	N/A	
	K8	4 sec.	★★★★★
	K9	5 sec.	★★★★★

Lexus Navigation without Mark Levinson

NAVIGATION WITHOUT MARK LEVINSON	CAR MODEL	MODEL YEAR	
	RX	since 2009	
	CONFIGURATION	**BUFFER TIME**	**RATING**
	default (K3)	16 sec.	★★★
	K8	4 sec.	★★★★
	K2	6 sec.	★★★★★

MAN MMT Advanced Radio

MMT ADVANCED RADIO	CAR MODEL	MODEL YEAR
	TGL	
	TGM	
	TGS	
	TGX	

CONFIGURATION	BUFFER TIME	RATING
default (K3)	23 sec.	★★★
K23	12 sec.	★★★★
K10	20 sec.	★★★

Maserati Uconnect Navigation

UCONNECT NAVIGATION	CAR MODEL		MODEL YEAR	
	Ghibli		since 2013	
	CONFIGURATION	**BUFFER TIME**	**RATING**	
	default (K3)	N/A		
	K8	4 sec.	★★★★★	

Maserati Uconnect Navigation

UCONNECT NAVIGATION	CAR MODEL		MODEL YEAR	
	Quattroporte		since 2013	
	CONFIGURATION	**BUFFER TIME**	**RATING**	
	default (K3)	N/A		
	K8	4 sec.	★★★★★	

Mazda NB1

NB1 (USB MENU WITH 4 LINES) (TFT DISPLAY, FULL-SPEED USB)	CAR MODEL	MODEL YEAR
	Mazda 6	since 2013
	Mazda CX-5	since 2013
	CONFIGURATION	**BUFFER TIME**	**RATING**

CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K45	6 sec.	★★★★★
K59	8 sec.	★★★★

Mazda NB1

NB1 (USB MENU WITH 3 LINES) (TFT DISPLAY, HIGH-SPEED USB)	CAR MODEL	MODEL YEAR
	Mazda 6	since 2013
	Mazda CX-5	since 2013

CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K46	6 sec.	★★★★★
K59	8 sec.	★★★★

Mazda MZD Connect

MZD CONNECT	CAR MODEL	MODEL YEAR
	Mazda 3	since 2013

CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K59	6 sec.	★★★★★

Source: images.mazdausa.com/MusaWeb/musa2/images/vlp/panels/M6G/exterior-view/soulred/black/img_vlp_360_m6g_soulred_black_01_lg.jpg

Mercedes Audio 20 CD (small screen)

AUDIO 20 CD (SMALL SCREEN)	CAR MODEL	MODEL YEAR
	A-class (W176)	since 2013
	B-class (W242, W246)	2012–2014
	C-class (W204)	2012–2013
	C-class coupe (C202)	2011–2014
	CLA (C204)	2013–2014
	E-class (W212)	2012–2014
	GLA (X156)	since 2014
	GLK (X204)	since 2011

CONFIGURATION	BUFFER TIME	RATING
default (K3)	17 sec.	★★★
K8	4 sec.	★★★★★
K2	6 sec.	★★★★★

Source: http://media.daimler.com

Mercedes Audio 20 (COMAND NTG 4.5)

AUDIO 20 (COMAND NTG 4.5)	CAR MODEL	MODEL YEAR
	A-class (W176)	since 2013
	B-class (W242, W246)	since 2015
	C-class (W204)	2012–2013
	C-class coupe (C202)	2011–2014
	CLS (C218)	2011–2014
	E-class (W212)	since 2012
	GLA (X156)	since 2014
	GLK (X204)	since 2011
	ML (W166)	since 2012
	SL (W231)	since 2012
	SLK (R172)	since 2011
	Sprinter (W906)	since 2014
	Vito (W447)	since 2015

CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K39	17 sec.	★★★

Mercedes Audio 15 CD

AUDIO 15 CD	CAR MODEL	MODEL YEAR
	A-class (W176)	since 2013
	B-class (W242, W246)	since 2015
	C-class (W204)	2012–2013
	C-class coupe (C202)	2011–2014
	CLS (C218)	2011–2014
	E-class (W212)	since 2012
	GLA (X156)	since 2014
	GLK (X204)	since 2011
	ML (W166)	since 2012
	SL (W231)	since 2012
	SLK (R172)	since 2011
	Sprinter (W906)	since 20114
	Vito (W447)	since 2015

CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K28	14 sec.	★★★★

Mini Navigation head unit

NAVIGATION HEAD UNIT	CAR MODEL	MODEL YEAR
	Clubman (R55 facelift)	2011–2014
	Cooper / Cooper S (R56 facelift)	2011–2013
	Countryman (R60)	2010–2014
	One (F56)	since 2014
	Paceman	since 2013

CONFIGURATION	BUFFER TIME	RATING
default (K3)	30 sec.	★★★
K62	10 sec.	★★★★

Mitsubishi Navigation (MMCS)

NAVIGATION (MMCS)	CAR MODEL	MODEL YEAR
	ASX	2010–
	Outlander	2006–2012
	Pajero	2006–
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	N/A	
K7	2–4 sec.	★★★★★

Outlander Navigation

NAVIGATION (HW CODE: W15)	CAR MODEL	MODEL YEAR
	Outlander PHEV	since 2013
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	N/A	
K60	6 sec.	★★★★★

Nissan EV Navigation

EV NAVIGATION	CAR MODEL	MODEL YEAR
	Leaf	2010–2015
	eNV-200	since 2013
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	N/A	
K56	8 sec.	★★★★

Nissan Connect Premium 3 (08IT-X9)

CONNECT PREMIUM 3 (08IT-X9)	CAR MODEL	MODEL YEAR
	370Z	since 2008
	GT-R	since 2007
	Murano	2008–2014
	Navara	2004–2014
	Pathfinder	since 2005
	Patrol	since 2010
	Teana	2008–2013
	X-Trail	2007–2013
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	N/A	
K57	5 sec.	★★★★★

Connect 1 (LCN1 and 1.5)

CONNECT 1 (LCN1 AND 1.5)	CAR MODEL	MODEL YEAR
	Juke	since 2010
	Micra	2010-2016
	Note	since 2012
	NV200	since 2009
	Quashqai	2006-2013
	X-Trail	2007-2013
CONFIGURATION	**BUFFER TIME**	**RATING**
K3	N/A	
K75	5 sec.	★★★★★

Connect 2 (LCN2)

CONNECT 2 (LCN2)	CAR MODEL	MODEL YEAR
	e-NV200	since 2014
	Juke	since 2010
	Leaf	since 2010
	Micra	2010-2016
	Note	since 2012
CONFIGURATION	**BUFFER TIME**	**RATING**
K3	N/A	
K78	8 sec.	★★★★

Opel Touch & Connect navigation

TOUCH & CONNECT NAVIGATION		CAR MODEL	MODEL YEAR
		Astra	since 2010
		Corsa	2010–2014
		CONFIGURATION	BUFFER TIME	RATING
		default (K3)	25–60 sec.	★★

Navi 50 IntelliLink

INTELLILINK (NAVI80)		CAR MODEL	MODEL YEAR
		Vivaro	since 2015
		CONFIGURATION	BUFFER TIME	RATING
		default (K3)	120 sec.	★
		K7	17 sec.	★★★

Opel CD 400 Plus

CD 400 PLUS	CAR MODEL	MODEL YEAR
	Astra	since 2010
	Cascada	since 2013
	GTC	since 2011
	Meriva	since 2010
	Zafira	since 2011
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K52	18 sec.	★★★

Opel CD 600

CD 600	CAR MODEL	MODEL YEAR
	Astra	since 2010
	Cascada	since 2013
	GTC	since 2011
	Meriva	since 2010
	Zafira	since 2011
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K50	15 sec.	★★★★

Opel NAVI 900 IntelliLink 2

NAVI 900 INTELLILINK 2	CAR MODEL	MODEL YEAR
	Insignia	2008-2017
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K60	11 sec.	★★★★

Opel Navi 950 IntelliLink

NAVI 950 INTELLILINK	CAR MODEL	MODEL YEAR
	Astra	since 2010
	Antara	since 2010
	Cascada	since 2013
	Meriva	since 2010
	Mokka	since 2012
	GTC	since 2011
	Zafira	since 2011
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K51	18 sec.	★★★

Opel R 4.0 IntelliLink

CD 600	CAR MODEL	MODEL YEAR
	Astra	since 2010
	Corsa	since 2014
	Adam	since 2013
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K49	17 sec.	★★★

Peugeot RD45

RD45	CAR MODEL	MODEL YEAR
	207	2008–2011
	207 CC	2008–2011
	308	since 2008
	3008	2009–2013
	407	2008-2010
	4007	2008-2012
	4008	since 2012
	508	since 2010
	5008	2010–2011
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	N/A	
K24	14 sec.	★★★★

Peugeot RT6 (eMyWay)

RT6 (EMYWAY)	CAR MODEL	MODEL YEAR
	508	since 2011
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	23 sec.	★★★
K8	10 sec.	★★★★
K9	11 sec.	★★★★

Peugeot 4008 Navigation

4008 NAVIGATION	CAR MODEL	MODEL YEAR
	4008	since 2011
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	N/A	
K7	2–4 sec.	★★★★★
K14	7–10 sec.	★★★★

Peugeot SMEG (non-touch)

SMEG (NON-TOUCH)	CAR MODEL	MODEL YEAR
	208	since 2013
	2008	since 2013
	308	since 2013
	508	since 2010
	Partner	since 2008
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	15 sec.	★★★★
K53	4 sec.	★★★★★
After ignition is ON, the first starting time is around 1 minute.		

Peugeot SMEG+

SMEG+	CAR MODEL	MODEL YEAR
	208	since 2013
	2008	since 2013
	308	since 2013
	508	since 2010
	Partner	since 2008
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	N/A	
K8	4 sec.	★★★★★

Porsche PCM 3.1

PCM 3.1	CAR MODEL	MODEL YEAR
	911	2008–2011
	981	2008–2011
	92A	since 2008
	981	2009–2013
	95B	2008-2010
	970 (G1)	2008-2012
	970 (G2)	since 2012

CONFIGURATION	BUFFER TIME	RATING
default (K3)	30 sec.	★★★
K8	17 sec.	★★★
K13	18 sec.	★★★

Renault Media Nav

MEDIA NAVIGATION	CAR MODEL	MODEL YEAR
	Trafic	since 2014
	CONFIGURATION	BUFFER TIME	RATING

CONFIGURATION	BUFFER TIME	RATING
default (K3)	120 sec.	★
K7	15 sec.	★★★★

Renault R-Link (1GEN)

R-LINK (1GEN)	CAR MODEL	MODEL YEAR
	ZOE	2012-2015
	Captur	2013-2015
	Clio	2016-2016
	Twingo III	2014-2016
	Mégane	2008-2016
	Kangoo	2008-2016

CONFIGURATION	BUFFER TIME	RATING
default(K3)	17 sec.	★★★
K7	12 sec.	★★★★

Renault Media Nav Evolution

MEDIA NAV EVOLUTION	CAR MODEL	MODEL YEAR
	Captur	2013-2015
	Clio IV	2012-2016
	Kangoo	2008-2016
	Megane	2008-2016
	Twingo III	2014-2016
	ZOE	2012-2015

CONFIGURATION	BUFFER TIME	RATING
default (K3)	17 sec.	★★★
K7	12 sec.	★★★★

Scania Premium Radio (AUS3)

PREMIUM RADIO (AUS3)	CAR MODEL	MODEL YEAR	
	R series		
	CONFIGURATION	BUFFER TIME	RATING
	default(K3)	23 sec.	★★★
	K23	12 sec.	★★★★
	K10	20 sec.	★★★

CD Radio (GSS06)

CD RADIO (GSS06)	CAR MODEL	MODEL YEAR	
	Higer A30	2014	
	CONFIGURATION	BUFFER TIME	RATING
	K3	N/A	
	K9	28 sec.	★★★

Škoda Swing (RCD310)

SWING (RCD310)	CAR MODEL	MODEL YEAR
	Fabia	2011–2014
	Octavia	2011–2012
	Rapid	since 2013
	Roomster	since 2012
	Superb	2011–2014
	Yeti	since 2011
	Laura	2009–2015
CONFIGURATION	**BUFFER TIME**	**RATING**
default(K3)	16 sec.	★★★
K8	6 sec.	★★★★★
K10	6 sec.	★★★★★

Škoda Bolero (RCD510)

BOLERO (RCD510)	CAR MODEL	MODEL YEAR
	Fabia	2011–2014
	Octavia	2011–2012
	Rapid	since 2013
	Roomster	since 2012
	Superb	2011–2014
	Yeti	since 2011
	Laura	2009–2015
CONFIGURATION	**BUFFER TIME**	**RATING**
default(K3)	16 sec.	★★★
K8	6 sec.	★★★★★
K10	6 sec.	★★★★★

Škoda Amundsen (RNS310)

AMUNDSEN (RNS310)	CAR MODEL	MODEL YEAR
	Fabia	2011–2014
	Octavia	2011–2012
	Rapid	since 2013
	Roomster	since 2012
	Superb	2011–2014
	Yeti	since 2011
	Laura	2009–2015
CONFIGURATION	**BUFFER TIME**	**RATING**
default(K3)	16 sec.	★★★
K8	6 sec.	★★★★★
K10	6 sec.	★★★★★

Škoda Columbus (RNS510)

COLUMBUS (RNS510)	CAR MODEL	MODEL YEAR
	Fabia	2011–2014
	Octavia	2011–2012
	Rapid	since 2013
	Roomster	since 2012
	Superb	2011–2014
	Yeti	since 2011
	Laura	2009–2015
CONFIGURATION	**BUFFER TIME**	**RATING**
default(K3)	16 sec.	★★★
K8	6 sec.	★★★★★
K10	6 sec.	★★★★★

Škoda Amundsen Plus (RNS315)

AMUNDSEN PLUS (RNS315)	CAR MODEL	MODEL YEAR
	Fabia	2011–2014
	Octavia	2011–2012
	Rapid	since 2013
	Roomster	since 2012
	Superb	2011–2014
	Yeti	since 2011
	Laura	2009–2015
CONFIGURATION	**BUFFER TIME**	**RATING**
default(K3)	16 sec.	★★★
K8	6 sec.	★★★★★
K10	6 sec.	★★★★★

Škoda Bolero (Composition Media) until 2015

BOLERO (COMPOSITION MEDIA) UNTIL 2015	CAR MODEL	MODEL YEAR
	Fabia	2015
	Octavia	2013–2015
	Rapid	2013–2015
	Roomster	2012–2015
	Superb	2015
	Yeti	2011–2015
	Laura	2009–2015
CONFIGURATION	**BUFFER TIME**	**RATING**
default(K3)	20 sec.	★★★
K54	6 sec.	★★★★★

Škoda Amundsen (Discover Media) until 2015

AMUNDSEN (DISCOVER MEDIA) UNTIL 2015	CAR MODEL	MODEL YEAR
	Fabia	2015
	Octavia	2013–2015
	Rapid	2013–2015
	Roomster	2012–2015
	Superb	2015
	Yeti	2011–2015

CONFIGURATION	BUFFER TIME	RATING
default(K3)	34 sec.	★★
K43	4 sec.	★★★★★

Columbus (Discover Media Pro) until 2015

COLUMBUS (DISCOVER MEDIA PRO) UNTIL 2015	CAR MODEL	MODEL YEAR
	Fabia	2015
	Octavia	2013–2015
	Rapid	2013–2015
	Roomster	2012–2015
	Superb	2015
	Yeti	2011–2015

CONFIGURATION	BUFFER TIME	RATING
default(K3)	76 sec.	★
K8	60 sec.	★★
K9	60 sec.	★★

RCD215

RCD215	CAR MODEL	MODEL YEAR
	Citigo	2013

CONFIGURATION	BUFFER TIME	RATING
K3	N/A	
K8	6 sec.	★★★★★
K10	6 sec.	★★★★★

SsangYong Navigation

NAVIGATION	CAR MODEL	MODEL YEAR
	Tivoli	since 2015
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K29	5 sec.	★★★★★

SsangYong Non-Navigation

NON-NAVIGATION	CAR MODEL	MODEL YEAR
	Tivoli	since 2015
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K30	10 sec.	★★★★

Subaru CD / Radio (Panasonic)

CD/RADIO (PANASONIC)	CAR MODEL	MODEL YEAR
	BRZ	since 2012
CONFIGURATION	**BUFFER TIME**	**RATING**
default(K3)	N/A	
K4	6 sec.	★★★★★

Subaru CD / Radio

CD/RADIO	CAR MODEL	MODEL YEAR
	Trezia	since 2011
CONFIGURATION	**BUFFER TIME**	**RATING**
default(K3)	N/A	
K32	4 sec.	★★★★★

Subaru CD / Radio (Clarion)

CD/RADIO (CLARION)	CAR MODEL	MODEL YEAR
	Forester	since 2013
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	N/A	
K9	15 sec.	★★★★

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Subaru CD / Radio (Clarion)

CD/RADIO (CLARION)	CAR MODEL	MODEL YEAR
	Impreza	since 2012
	XV	since 2012
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	N/A	
K9	15 sec.	★★★★

Subaru Navigation

NAVIGATION	CAR MODEL	MODEL YEAR
	Legacy	2010–2014
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	22 sec.	★★★
K2	10 sec.	★★★★
K9	11 sec.	★★★★

Subaru Navigation

NAVIGATION	CAR MODEL	MODEL YEAR
	Outback	2010–2014
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	22 sec.	★★★
K2	10 sec.	★★★★
K9	10 sec.	★★★★

Subaru Navigation (harman / kardon)

NAVIGATION (HARMAN/KARDON)	CAR MODEL	MODEL YEAR
	Forester	since 2013
	Impreza	since 2012
	XV	since 2012
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	22 sec.	★★★
K2	10 sec.	★★★★
K31	10 sec.	★★★★

Subaru Fujitsu Ten Navi Gen 1.0 (FM412LS)

FUJITSU TEN NAVI GEN 1.0 (FM412LS)	CAR MODEL	MODEL YEAR
	Impreza	2011-2016
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	N/A	
K69	9 sec.	★★★★

Subaru Fujitsu Ten Starlink 86271AL340

FUJITSU TEN STARLINK 86271AL340	CAR MODEL	MODEL YEAR
	Outback	since 2015
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	N/A	
K44	15 sec.	★★★★

Subaru Fujitsu Ten Starlink (FF988LM)

FUJITSU TEN STARLINK (FF988LM)	CAR MODEL	MODEL YEAR
	Forester	since 2012
	Outback	since 2015
	Legacy	since 2014
	WRX	2017
	Crosstrek	2017
	Impreza	2016

CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K67	19 sec.	★★★

Buffers station list about 2 minutes.

Suzuki Navigation

NAVIGATION	CAR MODEL	MODEL YEAR	
	Grand Vitara	since 2015	
	CONFIGURATION	**BUFFER TIME**	**RATING**
	default (K3)	20 sec.	★★★
	K13	10 sec.	★★★★
	K10	15 sec.	★★★★

Tesla Model S (SW 6.1)

MODEL S (SW: 6.1)	CAR MODEL	MODEL YEAR
	Model S	since 2014
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	20 sec.	★★★
	K2	11 sec.	★★★★
	K6	14 sec.	★★★★
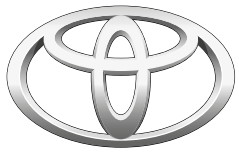
Toyota CD / Radio

CD/RADIO	CAR MODEL	MODEL YEAR
	Verso S	2011–2013
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K32	4 sec.	★★★★★

Toyota CD / Radio (W53826)

CD/RADIO (W53826)	CAR MODEL	MODEL YEAR
	Auris E150 (facelift)	2010–2012
	Avensis (T27)	2009–2011
	GT86	since 2012
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K4	6 sec.	★★★★★

Toyota CD / Radio (W53843)

CD/RADIO (W53843)	CAR MODEL	MODEL YEAR
	Auris E150 (facelift)	2010–2012
	Avensis (T27)	2009–2011
	GT86	since 2012
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K4	6 sec.	★★★★★

Toyota CD / Radio (W53848)

CD/RADIO (W53848)	CAR MODEL	MODEL YEAR
	Auris E150 (facelift)	2010–2012
	Avensis (T27)	2009–2011
	GT86	since 2012
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K4	6 sec.	★★★★★

Toyota RD45

RD45	CAR MODEL	MODEL YEAR
	ProAce	since 2013
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K24	14 sec.	★★★★

Toyota Navigation (harman / kardon)

NAVIGATION (HARMAN/KARDON)	CAR MODEL	MODEL YEAR
	Prius C	since 2012
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	22 sec.	★★★
	K2	10 sec.	★★★★
	K9	11 sec.	★★★★

Toyota Touch & Go

TOUCH & GO	CAR MODEL	MODEL YEAR
	Hilux	since 2012
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	40 sec.	★★
	K6	40 sec.	★★

Toyota Touch & Go

TOUCH & GO	CAR MODEL	MODEL YEAR
	Yaris	2011–2014
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K34	10 sec.	★★★★

Toyota Touch & Go

TOUCH & GO	CAR MODEL	MODEL YEAR
	Prius Plug in	since 2012
	Prius+	since 2012
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	20 sec.	★★★
	K7	11 sec.	★★★★

Toyota Touch & Go (Hybrid)

TOUCH & GO (HYBRID)	CAR MODEL	MODEL YEAR
	Yaris	2011–2014
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K35	10 sec.	★★★★

Toyota Touch & Go 2

TOUCH & GO 2	CAR MODEL	MODEL YEAR
	Yaris	since 2015
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K36	10 sec.	★★★★

Toyota Touch & Go 1

TOUCH & GO 1	CAR MODEL	MODEL YEAR
	Avensis	2012–2015
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K37	10 sec.	★★★★

Toyota Touch & Go Plus (Hybrid)

TOUCH & GO PLUS (HYBRID)	CAR MODEL	MODEL YEAR
	Auris	2012–2015
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K41	12 sec.	★★★★

Toyota Touch & Go 1

TOUCH & GO 1	CAR MODEL	MODEL YEAR
	Auris	2012–2015
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K38	12 sec.	★★★★
	K42	12 sec.	★★★★

Toyota Touch 2 With Go+

TOUCH 2 WITH GO+	CAR MODEL	MODEL YEAR
	Auris Hybrid	since 2016
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K60	10 sec.	★★★★

Toyota Navigation head unit

NAVIGATION HEAD UNIT	CAR MODEL	MODEL YEAR	
	Prius+	since 2012	
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K54	7 sec.	★★★★★

Touch

TOUCH	CAR MODEL	MODEL YEAR	
	Land Cruiser	2010-2013	
	CONFIGURATION	BUFFER TIME	RATING
	K3	N/A	
	K8	8 sec.	★★★★

Volvo Sensus

SENSUS	CAR MODEL	MODEL YEAR
	Volvo S60	since 2011
	Volvo S80	since 2012
	Volvo V40	since 2013
	Volvo V50	since 2010
	Volvo V60	since 2011
	Volvo V70	since 2012
	Volvo XC60	since 2012
	Volvo XC70	since 2012
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	24 sec.	★★★
K16	20 sec.	★★★
K27	21 sec.	★★★

Volvo Sensus Connect

SENSUS CONNECT	CAR MODEL	MODEL YEAR
	Volvo V60	since 2011
	Volvo V70	since 2012
	Volvo XC60	since 2012
	Volvo XC70	since 2012
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	40 sec.	★★
K26	13 sec.	★★★★

Volvo Sensus Connect (Ocean Race)

SENSUS CONNECT (OCEAN RACE)	CAR MODEL	MODEL YEAR
	XC60 Ocean Race	since 2014
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K40	22 sec.	★★★

Volvo AUU

AUU	CAR MODEL	MODEL YEAR
	Volvo S80	since 2011
	Volvo V70	since 2011
	Volvo XC60	since 2011
	Volvo XC70	since 2011
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K33	8 sec.	★★★★

Volvo XC90 v2

XC90 V2	CAR MODEL	MODEL YEAR
	XC90	2002 - 2014
	CONFIGURATION	BUFFER TIME	RATING
	default (K3)	N/A	
	K60	12 sec.	★★★★

Volkswagen RCD310

RCD310	CAR MODEL	MODEL YEAR
	Amarok	since 2010
	Beetle	since 2012
	Caddy	since 2010
	Caravelle	since 2010
	EOS	since 2009
	Golf	since 2009
	Jetta	since 2008
	Multivan	since 2010
	Passat	since 2008
	Polo	since 2010
	Scirocco	since 2009
	Sharan	since 2011
	Tiguan	since 2007
	Touran	since 2008
	Transporter	since 2010
CONFIGURATION	BUFFER TIME	RATING
default(K3)	16 sec.	★★★
K64	6 sec.	★★★★★
K10	6 sec.	★★★★★

Volkswagen RCD510

RCD510	CAR MODEL	MODEL YEAR
	Amarok	since 2010
	Beetle	since 2012
	Caddy	since 2010
	Caravelle	since 2010
	EOS	since 2009
	Golf	since 2009
	Jetta	since 2008
	Multivan	since 2010
	Passat	since 2008
	Polo	since 2010
	Scirocco	since 2009
	Sharan	since 2011
	Tiguan	since 2007
	Touran	since 2008
	Transporter	since 2010

CONFIGURATION	BUFFER TIME	RATING
default(K3)	16 sec.	★★★
K64	6 sec.	★★★★★
K10	6 sec.	★★★★★

Volkswagen RNS310

RNS310	CAR MODEL	MODEL YEAR
	Amarok	since 2010
	Beetle	since 2012
	Caddy	since 2010
	Caravelle	since 2010
	EOS	since 2009
	Golf	since 2009
	Jetta	since 2008
	Multivan	since 2010
	Passat	since 2008
	Polo	since 2010
	Scirocco	since 2009
	Sharan	since 2011
	Tiguan	since 2007
	Touran	since 2008
	Transporter	since 2010

CONFIGURATION	BUFFER TIME	RATING
default(K3)	16 sec.	★★★
K64	6 sec.	★★★★★
K10	6 sec.	★★★★★

Volkswagen RNS315

RNS315	CAR MODEL	MODEL YEAR
	Amarok	since 2010
	Beetle	since 2012
	Caddy	since 2010
	Caravelle	since 2010
	EOS	since 2009
	Golf	since 2009
	Jetta	since 2008
	Multivan	since 2010
	Passat	since 2008
	Polo	since 2010
	Scirocco	since 2009
	Sharan	since 2011
	Tiguan	since 2007
	Touran	since 2008
	Transporter	since 2010

CONFIGURATION	BUFFER TIME	RATING
default(K3)	16 sec.	★★★
K64	6 sec.	★★★★★
K10	6 sec.	★★★★★

Volkswagen RNS510

RNS510	CAR MODEL	MODEL YEAR
	Amarok	since 2010
	Beetle	since 2012
	Caddy	since 2010
	Caravelle	since 2010
	EOS	since 2009
	Golf	since 2009
	Jetta	since 2008
	Multivan	since 2010
	Passat	since 2008
	Polo	since 2010
	Scirocco	since 2009
	Sharan	since 2011
	Tiguan	since 2007
	Touran	since 2008
	Transporter	since 2010

CONFIGURATION	BUFFER TIME	RATING
default(K3)	16 sec.	★★★
K64	6 sec.	★★★★★
K10	6 sec.	★★★★★

Volkswagen RNS810

RNS810	CAR MODEL	MODEL YEAR
	Phaeton	since 2009
	CONFIGURATION	BUFFER TIME	RATING
	default(K3)	16 sec.	★★★
	K64	6 sec.	★★★★★
	K10	6 sec.	★★★★★

Volkswagen RCD550

RCD550	CAR MODEL	MODEL YEAR
	Touareg	since 2010
	CONFIGURATION	BUFFER TIME	RATING
	default(K3)	16 sec.	★★★
	K64	6 sec.	★★★★★
	K10	6 sec.	★★★★★

Volkswagen RNS850

RNS850	CAR MODEL	MODEL YEAR
	Touareg	since 2010
	CONFIGURATION	BUFFER TIME	RATING
	default(K3)	16 sec.	★★★
	K64	6 sec.	★★★★★
	K10	6 sec.	★★★★★

Volkswagen Composition Media (until 2015)

COMPOSITION MEDIA (UNTIL 2015)	CAR MODEL	MODEL YEAR
	Beetle	since 2015
	Caddy	since 2015
	California	since 2015
	Caravelle	since 2015
	EOS	since 2015
	Golf	since 2013
	Jetta	since 2011
	Multivan	since 2015
	Passat	since 2014
	Polo	since 2014
	Sharan	since 2010
	Tiguan	since 2009
	Touran	since 2015
	Transporter	since 2014
	CONFIGURATION	BUFFER TIME	RATING
	default(K3)	20 sec.	★★★
	K54	6 sec.	★★★★

Volkswagen Discover Media (until 2015)

DISCOVER MEDIA (UNTIL 2015)	CAR MODEL	MODEL YEAR
	Beetle	since 2015
	Caddy	since 2015
	California	since 2015
	Caravelle	since 2015
	EOS	since 2015
	Golf	since 2013
	Jetta	since 2011
	Multivan	since 2015
	Passat	since 2014
	Polo	since 2014
	Sharan	since 2010
	Tiguan	since 2009
	Touran	since 2015
	Transporter	since 2014

CONFIGURATION	BUFFER TIME	RATING
default(K3)	34 sec.	★★
K43	4 sec.	★★★★★

Volkswagen Discover Media Pro (until 2015)

DISCOVER MEDIA PRO (UNTIL 2015)	CAR MODEL	MODEL YEAR
	Beetle	2015
	Caddy	2015
	California	2015
	Caravelle	2015
	EOS	2015
	Golf	2013–2015
	Jetta	2011–2015
	Multivan	2015
	Passat	2014–2015
	Polo	2014–2015
	Sharan	2010–2015
	Tiguan	2009–2015
	Touran	2015
	Transporter	2014–2015

CONFIGURATION	BUFFER TIME	RATING
default(K3)	76 sec.	★
K8	60 sec.	★★
K9	60 sec.	★★

COMPATIBILITIES FOR AFTERMARKET HEAD UNITS AND HIFI SYSTEMS

Clarion CMD8

CMD8		
CONFIGURATION	BUFFER TIME	RATING
default (K3)	16 sec.	★★★
K7	8 sec.	★★★★
K9	8 sec.	★★★★

Clarion CMS2

CMS2		
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K9	6 sec.	★★★★★

Clarion CZ703E

CZ703E		
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K4	5 sec.	★★★★★

Clarion FZ502E

FZ502E		
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K4	5 sec.	★★★★★

Clarion NX502E

NX502E		
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K10	27 sec.	★★★
K13	28 sec.	★★★

Clarion NX302E

NX302E		
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K7	4 sec.	★★★★★
K13	4 sec.	★★★★★

Clarion NX702E

NX702E		
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K10	28 sec.	★★★
K13	27 sec.	★★★

Clarion NX501E

NX501E		
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K7	4 sec.	★★★★★
K13	4 sec.	★★★★★

Clarion VX401E

VX401E		
CONFIGURATION	BUFFER TIME	RATING
default (K3)	36 sec.	★★★
K2	27 sec.	★★★
K9	27 sec.	★★★

Clarion VZ402E

VZ402E		
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	40 sec.	★★
K8	26 sec.	★★★
K9	29 sec.	★★★

Eonon G2110F

AVR-660		
CONFIGURATION	BUFFER TIME	RATING
default (K3)	10 sec.	★★★★

harman/kardon

by HARMAN

harman/kardon AVR-660

AVR-660		
CONFIGURATION	BUFFER TIME	RATING
default (K3)	20 sec.	★★★
K2	10 sec.	★★★★
K9	10 sec.	★★★★

harman/kardon AVR-760

AVR-760		
CONFIGURATION	BUFFER TIME	RATING
default (K3)	20 sec.	★★★
K2	10 sec.	★★★★
K9	10 sec.	★★★★

harman/kardon BDS-700

BDS-700		
CONFIGURATION	BUFFER TIME	RATING
default (K3)	34 sec.	★★
K9	22 sec.	★★★
K2	24 sec.	★★★

harman/kardon
by HARMAN

JVC KDR860BT

KDR860BT		
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K63	2 sec.	★★★★★

JVC KDR-X30

KDR-X30		
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K63	2 sec.	★★★★★

Pioneer AVIC-F30BT

AVIC-F30BT		
CONFIGURATION	BUFFER TIME	RATING
default (K3)	6 sec.	★★★★★

Pioneer AVH-X7500BT

AVH-X7500BT		
CONFIGURATION	BUFFER TIME	RATING
default (K3)	23 sec.	★★★
K13	10 sec.	★★★★
K2	13 sec.	★★★★

Pioneer AVH-X7700BT

AVH-X7700BT		
CONFIGURATION	BUFFER TIME	RATING
default (K3)	10 sec.	★★★★
K8	9 sec.	★★★★
K9	12 sec.	★★★★

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SONY

Sony CDX-HR910UI

CDX-HR910UI		
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	N/A	
K9	6 sec.	★★★★★

Sony CDX-MR60

CDX-MR60		
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	N/A	
K9	6 sec.	★★★★★

Sony DSX-M50BT

DSX-M50BT		
CONFIGURATION	**BUFFER TIME**	**RATING**
default (K3)	N/A	
K9	5 sec.	★★★★★

SONY

Sony MEX-M70BT

Sony XSP-N1BT

MEX-M70BT		
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K9	5 sec.	★★★★★

XSP-N1BT		
CONFIGURATION	BUFFER TIME	RATING
default(K3)	N/A	
K4	5 sec.	★★★★★

Sony XAV-63

XAV-63		
CONFIGURATION	BUFFER TIME	RATING
default(K3)	36 sec.	★★
K8	26 sec.	★★★
K9	26 sec.	★★★

Sony XAV-64BT

XAV-64BT		
CONFIGURATION	BUFFER TIME	RATING
default(K3)	36 sec.	★★
K8	26 sec.	★★★
K9	26 sec.	★★★

Zenec ZE-NC4121D

ZE-NC4121D (HYUNDAI SPECIFIC AFTERMARKET RADIO)		
CONFIGURATION	BUFFER TIME	RATING
default (K3)	N/A	
K2	5 sec.	★★★★★

Zenec ZE-NC514

ZE-NC514		
CONFIGURATION	BUFFER TIME	RATING
default (K3)	32 sec.	★★
K2	32 sec.	★★
K3	32 sec.	★★

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