



Z-E3215

Car Specific Naviceiver

Compatible with BMW 3 Series Limousine E90 | Touring E91 |
Coupé E92 | Convertible E93

Company:

ZENEC by ACR AG · Bohrturmweg 1 · CH-5330 Bad Zurzach · Switzerland · Email: support@zenec.com

© Copyright ZENEC - Subject to changes and errors. November 2012 - Rev. A



ZENEC E>GO Z-E3215 – Perfect Integration Into Your BMW 3 Series

In 2008, ZENEC brought the first E>GO onto the market, thereby immediately establishing a completely new category of device: the vehicle-specific naviceiver. Today, ZENEC is the undisputed market leader in the German speaking area for in-car multimedia navigation devices. And with the new product range there are E>GOs to fit into over 40 models of vehicle.

E>GO – clever design, perfect system solution

The E>GO concept is a system solution without equal for realizing in-car multimedia and navigation in an ingeniously simple way: E>GOs are a perfect fit – visually and technically – in the respective target vehicle, without hours of installation work.

Of particular importance is the perfect integration into the existing vehicle electronics. E>GOs are designed to integrate into the vehicle's internal CAN data network in a really uncomplicated way.

Straightforward installation, an immense range of functions and an ingeniously simple concept of operation – that makes E>GO so exceptional and successful. With the knowledge of the peculiarities of the individual vehicles in the background, the next E>GO generation now lines up: with many innovative features and, key for ZENEC, a simplified ease of use.

E>GO Z-E3215 – custom-fit to your BMW 3 series

The Z-E3215 is a smart specialist, specifically developed for your BMW. The specific construction, amber button illumination and customized

styling of the front panel makes ZENEC's top naviceiver blend in perfectly with the various BMW 3 series models.

The Z-E3215 is also effortlessly integrated into the existing automotive electronics. The E>GO is linked to the steering wheel remote control, the Optical Park System (OPS), and the Climatronic control status via the vehicle-specific CAN bus interface. The functionality of factory installed components remains intact.

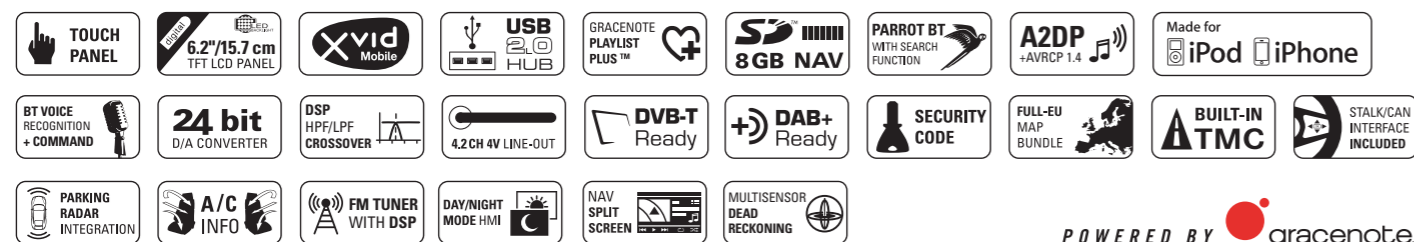
E>GO Z-E3215 – navigation, entertainment, communication

Experience audio and video in high quality via iPod/iPhone or USB: The Z-E3215 is an innovative media station, perfectly suited for playback of digital media: MP3, WMA, Xvid, AVI. The Z-E3215 features a USB-hub, to provide connectivity for three USB 2.0 memory devices and an interface for iPod/iPhone connection.

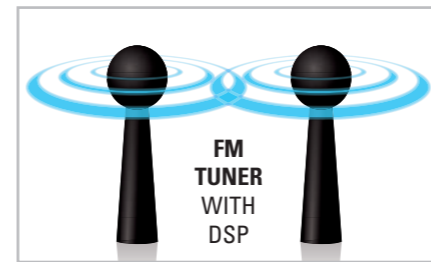
Safe hands-free calling on the road with the integrated Bluetooth module from Parrot. The speaker independent voice recognition function ("voice command") allows to control call control functions even easier and "dial" phone book contacts directly using voice commands.

The Z-E3215 combines up-to-date entertainment features with an innovative multisensor dead reckoning GPS navigation system (with map coverage of 43 EU countries) that ensures pin-point accuracy of route guidance everywhere and anytime.

Features



POWERED BY gracenote.



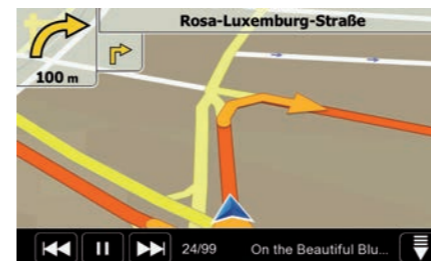
FM Tuner with DSP

The analog radio receiver front-end of ZENEC's E>GO naviceiver features a DSP software algorithm to provide noise masking for low level FM station broadcast signals and radio playback of improved clarity.



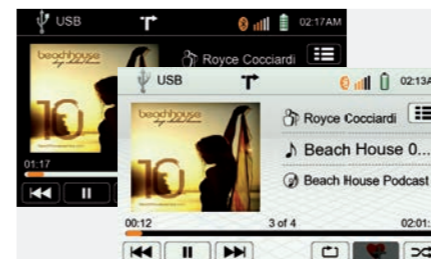
OE parking sensor integration

Perfect integration into each target vehicle – data present in the CAN net for factory installed parking radar sensors is read, processed and displayed via the ZENEC OPS (Optical Parking System) on the Touchscreen of the E>GO. Acoustical PDC integration is provided by a device internal buzzer.



All-round information

Thanks to the infobar function, you will be notified of incoming calls and/or audio features without leaving the navigation mode. In other playback modes there is also a navigation infobar to keep you updated when to take the next turn or exit.



Day/night mode HMI

The E>GO features a built in light sensor with ambient light sensor logic controlling the switching of day and night-HMIs. This provides maximum contrast of the display for daylight conditions and does reduce glare at night.



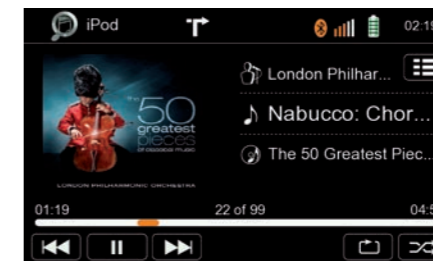
Steering wheel remote control integration

The Z-E3215 is connected via the vehicle-specific CAN bus interface to the factory installed steering wheel remote control. Audio sources (radio, MP3, USB) are operated in identical fashion as with the OE radio before.



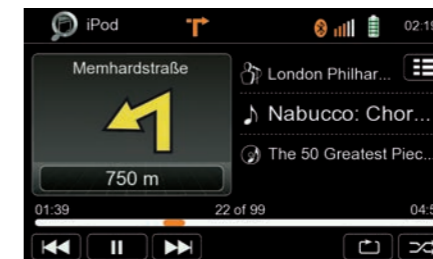
A/C control status info integration

The status data of the Climatronic, if installed in the respective vehicle and present in the CAN net, are displayed as a pop-up info on your E>GO's touchscreen display during adjustment of any A/C related function.



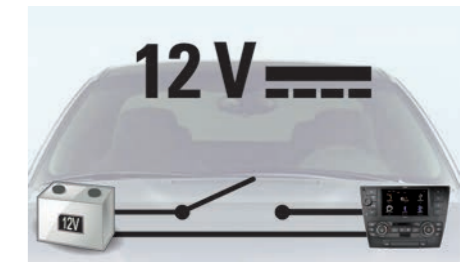
Simple connection of iPod/iPhone

Connect your iPod or iPhone to the E>GO device via the USB port of the USB hub. The display of Apple Album Art is integrated in the iPod/iPhone menu. This menu also gives you the facility to search for a title or an artist alphabetically.



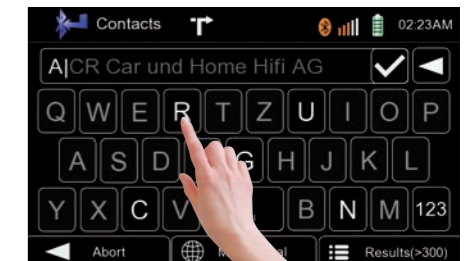
Nav splitscreen

Always keep track: The E>GO naviceiver allows navigation splitscreen mode on the TFT LCD screen for all audio sources, including the Bluetooth hands-free source mode.



BMW Power System integration

BMW vehicles will cut off all electrical users/modules from the battery approx. 30 minutes after the central locking system is engaged. The E>GO saves the device settings and user data internally, to re-load data from internal memory once the vehicle is unlocked (CAN wake up).



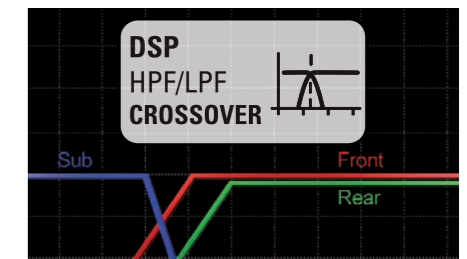
Optimized ease of use

The clearly designed menus are self-explanatory and intuitive to operate. Large control fields and a logically structured navigation ensure that the E>GO can also be controlled in safety when you are driving.



Gracenote Playlist Plus

The Gracenote "More Like This" feature stands for the "one-click" generation of style and genre based playlists in USB playback mode by pre-selecting a single song/track.



DSP HPF/LPF crossover

The E>GO features an internal DSP with active crossover functions, processing the pre-amp line-level signals and the speaker outputs (internal amp) with selectable high- and low-pass frequencies and 12 dB/oct. crossover slopes. This provides for best integration of active subwoofers in passive/active system configurations.



Your Perfect Navigator

The Z-E3215 combines up-to-date entertainment features with an innovative SD card based multisensor dead reckoning GPS navigation system. This ensures pin-point accuracy of route guidance everywhere and anytime – even in areas where GPS satellite signals are not intermittent or available (e.g. parking garages, tunnels, cities with skyscrapers).

ZENEC's new E>GO has the latest maps of 43 European countries preloaded (with Premium POIs), which appear highly realistic, thanks to the 3D high-definition rendering of terrain and 3D objects.

ZENEC's innovative navigation software makes the destination and route selection even easier and more intuitive. The "Quick Menu" provides straight access to all sat nav functions. The "Smart" and "Eco" route calculation modes for shorter and/or more economical driving are hard to beat.

With the "Parking Around" function appropriate parking spots near you will start to show up, once you approach your final destination.

Features like the new Real Junction View function, the Lane Assistant or the Auto Zoom at crossings and junctions facilitate orientation in more complex traffic situations. Part of the extensive feature set is the display of traffic information/guidelines when entering an EU country and the visual and audible warning to indicate speed limits on major roads.

The TMC/TMC Pro function keeps you up to date regarding potential traffic jams on the chosen route, while automatic re-calculation of a suitable detour is a function covered as well.

A congested intersection or a traffic jam, simply reported too late by TMC? The Z-E3215 is well informed, proposing alternative routes in real-time, recommending best route options.

You can update the E>GO's content package, expand the navi-section with additional maps, POIs or download the newest 3D city maps using the www.zenec.naviextras.com portal: anytime, even in the middle of the night or abroad during a journey.



High-resolution 3D maps

The high-resolution WVGA display of the E>GO ensures that all maps appear pin-sharp. 3D orientation points and very realistic 3D city maps make navigation in big cities even more comfortable for you.



Topographic maps

Realistic 3D landscape views lead you through complex terrains. Choose between different designs for day and night. Thanks to a light sensor, the E>GO can also automatically switch between day and night HMLs.



Text-to-Speech

The E>GO also displays the names of crossroads. And if you wish, it will read out the street names to you, thanks to the integrated Text-to-Speech function – in this way you can concentrate fully on the traffic while driving.



Real Junction View

Features like the new photo-realistic Real Junction View of exit points on free-ways, the Lane Assist and the Smart-zoom function at junctions and exit points facilitate orientation, particularly in complex traffic situations.

Navigation Features

- SD card based 3D High Definition splitscreen navigation with map data for 43 eastern and western European countries (on 8 GB memory card)
- Multi sensor dead reckoning for accurate navigation performance (without GPS signal)
- Premium POI bundle with over 6 million points-of-interest
- Integrated TMC and TMC Pro receiver, TMC service is functional and free, the TMC Pro function requires a license (lifetime) to be separately purchased through Naviextras (available for Germany, UK and France only)
- TTS Pro voice guidance for 28 different spoken languages
- 2D or 3D map view with auto-zoom and realistic display of 3D terrains and 3D landmarks
- Smart-zoom function at intersections and crossings
- Real Junction View and highway mode with Real Signpost rendering
- Tunnel mode

- Eco and Smart Route Planning
- Calculation of Real-Time Route Alternatives
- Detour Hint function
- Outlook address import
- "Where-Am-I" function
- Parking Around Algorithm
- display of traffic information/guidelines when entering an EU country
- visual and audible warning to indicate speed limits on major roads
- Trip computer: configurable display of three additional pieces of information, with the choice of arrival time, journey time, speed, direction, height above sea level, etc.
- 30 Days Latest Map Guarantee
- Map updates via the online-portal: www.zenec.naviextras.com
- external GPS antenna included in the set



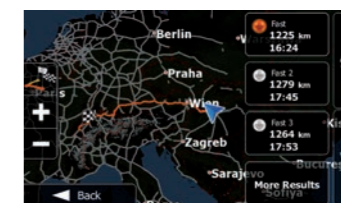
Reach Points Of Interests fast

The E>GO has a Premium POI database with more than six million entries. Using the well designed search menu makes it easy to select special destinations.



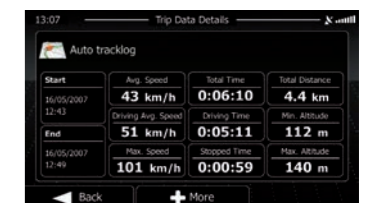
Intelligent destination input

To select a destination, you need to enter only a few letters – the E>GO completes your input and automatically proposes appropriate destinations.



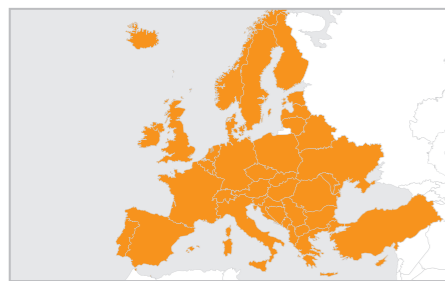
Intelligent route planning

So that you can optimize the route exactly as you want, you have a choice between various route calculation methods: short, fast, Eco and easy.



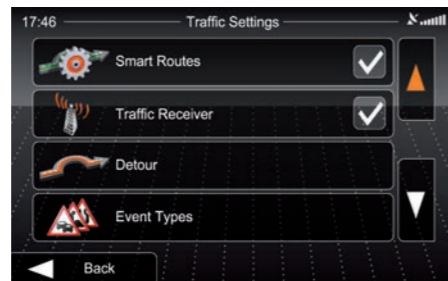
Practical trip computer

The trip computer gives you a summary of the most important trip data, such as your average speed, arrival time or real travel time to destination.



Navigate through Europe the clever way

Detailed maps of 43 countries in Western and Eastern Europe give you perfect orientation throughout Europe. For menu and voice navigation there are 28 different languages to choose from.



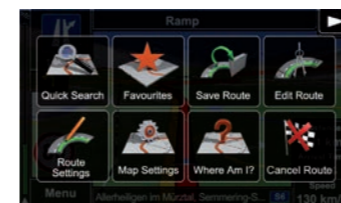
TMC/TMC Pro

The TMC or TMC Pro function gives you timely information about traffic jams on your route and possible detours. Simply choose the appropriate menu to select and show all the relevant data on the map display.



Latest Map Guarantee

ZENEC's 30 Day Latest Map Guarantee: If updated maps are available within 30 days of your first use of the device on the road, you can download them from www.zenec.naviextras.com for free and install them on your ZENEC device.



Where Am I? function

With E>GO you are well prepared for all emergencies: Use the Where Am I? function to find hospitals, police stations, cash machines, filling stations and much more in your vicinity – a finger tap is all it takes.



Informed in timely manner

Included in the function package is the display of advisories when crossing EU borders, together with various warning messages: information on speed limits, legal alcohol limits, duty to wear a warning waistcoat etc.



Importing of Outlook contacts

Have you saved important contacts on your computer in MS Outlook? You can easily import these contacts directly into the navigation software of the E>GO by using the Naviextras Toolbox.



Flexible map updates

Via the online portal www.zenec.naviextras.com, you can update the pre-installed map packages at any time or upgrade them as you wish. Naviextras offers a large selection of maps for more than 75 countries.



Wireless communication via Bluetooth

ZENEC's naviceiver enables comprehensive connectivity and the convenience of operating a Bluetooth-capable mobile phone. The E>GO is equipped with a high-tech Bluetooth module from Parrot, the specialist for mobile communications – a hands-free unit, that guarantees you a wide range of functions and maximum compatibility with many mobile phone models.

With ZENEC you can make phone calls in excellent quality – either using the integrated microphone or the external microphone supplied with your E>GO. Thanks to the innovative audio DSP, unwanted ambient sounds can be filtered out more efficiently and voices understood more easily.

Parrot makes for very simple operation when driving. The caller's number, phone book entries and other information are clearly shown on the naviceiver's display. The address book of the naviceiver is automatically synchronized with the mobile phone as well.

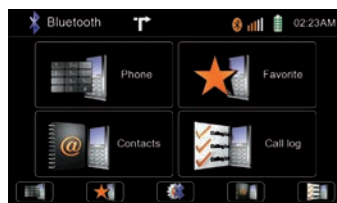
The speaker independent voice recognition function ("voice command") allows to control call control functions even easier and "dial" phone book contacts* directly using voice commands. *The paired mobile phone must support phone book access.

You can easily search for phone book entries – simply tap in the initial letters of the contact you want to dial. This search function is really an enormous benefit for professional use. Even special characters are no problem thanks to the multilingual keypad.

The firmware of the Bluetooth component can be conveniently updated using a USB stick, for example if you would like to use a brand new mobile phone model. Thus, the palette of compatible mobile telephones can be expanded, keeping the device future proof.

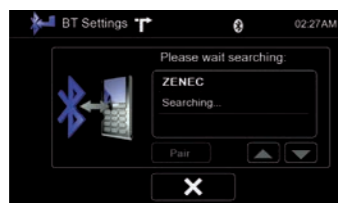
Bluetooth Features:

- Connection of up to 5 mobile phones
- synchronization of up to 1,000 contacts with max. 5 telephone numbers per contact
- voice control of phonebook contact dialing functions in 8 different EU languages
- alphabetical search function for contacts
- multilingual input keypad, including special characters and special letters
- Quick Dial menu for up to 5 favorite contacts
- memory for dialed and received calls
- redialing
- switch between hands-free and mobile phone
- BT-music streaming via A2DP with AVRCP 1.4
- internal and external microphone
- future-proof upgradable Bluetooth firmware



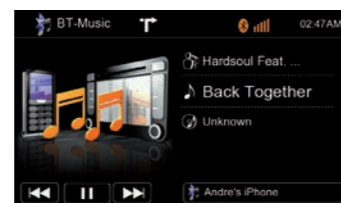
Making calls in the car in comfort

Use the clear Bluetooth menu to comfortably control all telephone functions – a touch is all it takes to transform your car into a telecommunication center.



Easy connections

You can connect up to 5 mobile phones to the E>GO, each having 1,000 contacts. The address book of your mobile synchronizes with the E>GO automatically.



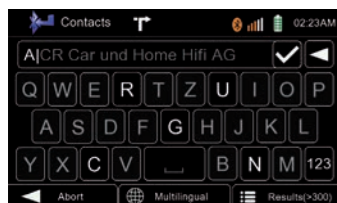
Music over your mobile phone

Music stored in your mobile phone can be played back over the E>GO thanks to A2DP and AVRCP 1.4. The playback is comfortably controlled via touchscreen.



Voice recognition function

The speaker independent voice recognition function allows to control call control functions even easier and "dial" phone book contacts directly using voice commands.



Fast contact entry search

The alphabetic search function makes finding a contact easier: simply tap in the initial letters. You can search using up to 15 initial letters.



Quick-Dial menu

Phone numbers that you use frequently can simply be saved as favorites – so you have fast access to your most important contacts at all times.



Comfortable contact management

You can search for a contact in the phonebook or in the favorites list. But you can also display the list of outgoing/incoming or missed calls.



No missed calls

The E>GO Bluetooth system allows broker calls so that you can conveniently switch back and forth between two active telephone calls.



Navigation navigate by touchscreen fast and comfortably in 43 European countries (including Eastern Europe)	RDS Tuner with DSP noise masking for low level FM station broadcast signals and 30 preset stations (18 FM/12 AM)	USB 2.0 Hub to provide connectivity for three USB 2.0 memory devices and one interface for iPod/iPhone connection	Camera rear-view camera input, manually or automatically activated by putting the car in reverse	iPod/iPhone iPod/iPhone direct connection via an optional interface, operation via touchscreen (also for iPod/iPhone video)
Gracenote Playlist Plus The "More Like This" feature enables to generate style and genre based playlists in USB playback mode	Bluetooth/A2DP integrated Parrot Bluetooth module for hands-free operation and audio streaming, upgradable firmware	A/V input A/V port (RCA) for the connection of other external A/V devices like gaming consoles, etc.	Xvid Xvid is the container format of choice: Over 90% of present-day AVI files are encoded with Xvid	Security code intelligent anti-theft protection based on software monitoring of the power supply

Connection Options: Limitless Connectivity

Due to the USB ports and the various A/V in and outputs, there is almost nothing that cannot be connected to the E>GO naviceiver. The ZENEC program has a wide palette of multimedia-based additional components that are optimally suited to the E>GO naviceiver. All equipment – external monitors, DVB-T and DAB+ receivers or rear-view cameras – can be connected directly to the naviceiver and operated via touchscreen.



USB 2.0 hub

Especially practical: There is a cable extension that can be plugged in on the E>GO's backside, to connect the USB hub that is contained in the set. The USB hub allows to connect three USB memory devices (up to 64 GB each) and the separately available iPod/iPhone interfaces ZE-NC-IPS and ZE-NC-IPS5.



Connection of iPod/iPhone

iPod and iPhone can be connected to the USB hub with the separately available interfaces ZE-NC-IPS or ZE-NC-IPS5 (for iPhone 5). This connection not only allows for quick access to all files, but also for the control of audio tracks, videos or Podcasts via the naviceiver's touchscreen. Naturally the iPod and iPhone are being charged during playback.



Rear-view cameras

The ZENEC product range includes diverse additional components perfectly matched to each other. For example, various rear-view camera models that impress with their universal installation options, high resolution, and their outstanding image quality. ZENEC cameras can conveniently be operated via touchscreen and are triggered automatically when reverse gear is engaged.

Main Features Z-E3215

NAVIGATION
3D High-Definition splitscreen navigation
Multi sensor dead reckoning for accurate navigation performance (without GPS signal)
SD card based navigation system (on 8 GB memory card)
Premium POI bundle with over 6 million points-of-interest
TTS Pro voice guidance for 28 different spoken languages
Realistic 3D rendering of terrains and landmarks, Tunnel-View, 3D Auto-Zoom for crossings and roundabouts, Real Junction View
Eco and Smart Route Planning, Calculation of Real-Time Route Alternatives, Parking Around Algorithm, Detour Hint function etc.
Outlook address import, Driver Alerts etc.
TMC and TMC Pro receiver
30 Days Latest Map Guarantee

BLUETOOTH
Parrot Bluetooth hands-free module
DSP audio processing for background noise masking
Synchronization of up to 1,000 phonebook entries with 5 numbers per entry
Advanced phonebook contact search function
Voice control of phonebook contact dialing functions in 8 different EU languages
Selectable internal or external BT microphone

MULTIMEDIA/AUDIO
USB hub allocating three USB 2.0 memory devices (each up to 64 GB)
Compatible USB file formats: MP3, WMA, AVI, Xvid
Gracenote "More Like This" for USB audio source and "one-click" generation of playlists by selection of one track
BT-music streaming via A2DP with AVRCP 1.4
DSP crossover with HPF / LPF function
4 x 40 watts class-D amplifier
24 bit D/A converter
Made for iPod / iPhone

GENERAL FEATURES
6.2" / 15.7 cm 16:9 TFT-LCD touchscreen with HMI for 22 different EU languages
FM RDS tuner with DSP noise masking and 30 preset stations (18 FM/12 AM)
1 x IR-remote control

CONNECTIVITY
4.2 RCA preamp line outputs (4 V)
2.0 RCA preamp line outputs (fixed level)
2 x RCA composite video outputs (NTSC)
1 x RCA A/V-input (CVBS)
1 x RCA video input for rear view camera (CVBS)
Connectivity for touchscreen compatible DAB+ or DVB-T devices

VEHICLE INTEGRATION FEATURES
Steering wheel remote control integration via CAN
Optical Park System (OPS) integration via CAN*
Climatronic control status integration via CAN*
BMW power system integration
Amber key illumination

* Functionality only provided if feature specific CAN data is present.

Vehicle Compatibility List

Brand	Model	Type	Model Year
BMW 3	Limousine (incl. LCI)	E90	2005 > 2011
	Touring (incl. LCI)	E91	2005 > 2011
	Coupé	E92	2005 > 2011
	Convertible	E93	2005 > 2011

The Z-E3215 replaces the BMW CD Business / Professional Radio. Acoustical parking sensor integration for vehicles with OEM installed PDC is emulated by the device itself, via the internal buzzer.