Manuals+

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PORSCHE

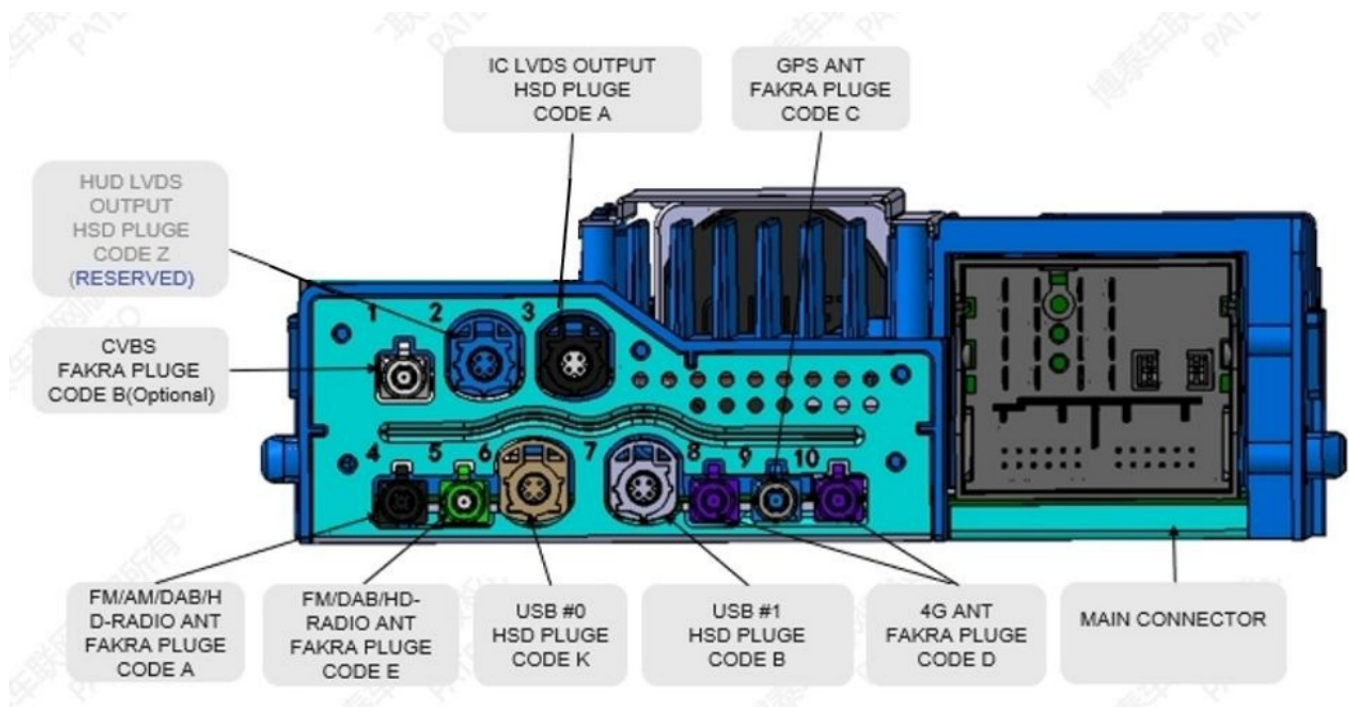## PORSCHE PCM3 Retrofit Android Auto and Carplay

Specifications

- DDR: 8GB
- UFS: 128GB
- Display: FM/AM, DAB
- External Amplifier: MOST
- MIC: Reverse Video, Analog
- Amplifier: Internal
- USB: Front Panel USB TYPE C * 1, backend USB 2.0 * 2
- Network: 4G
- CAN: Support
- Bluetooth: BT5.2
- WiFi: 802.11 a/b/n/ac
- GNSS: Support

Overview

This document specifies the specific requirements of the customer for the connectors, hardware and software functions of the PCM3 Head Unit product.

Information of Connectors

IC LVDS OUTPUT HSD PLUGE CODE A

GPS ANT FAKRA PLUGE CODE C

HUD LVDS OUTPUT HSD PLUGE CODE Z (RESERVED)

CVBS FAKRA PLUGE CODE B(Optional)

FM/AM/DAB/HD-RADIO ANT FAKRA PLUGE CODE A

FM/DAB/HD-RADIO ANT FAKRA PLUGE CODE E

USB #0 HSD PLUGE CODE K

USB #1 HSD PLUGE CODE B

4G ANT FAKRA PLUGE CODE D

MAIN CONNECTOR

Features of Hardware System

FEATURES	DESCRIPTION
DDR	8GB
UFS	128GB
DISPLAY	7
FM/AM	Support
DAB	Support
MOST external Amplifier	Support
CVBS Reverse Video	Support
MIC (Analog)	External MIC * 1 + Internal MIC * 1
Amplifier (Internal)	4 Channels
USB	Front Panel USB TYPE C * 1 + backend USB 2.0 * 2

4G Netwrok	Support
CAN	1 Channel
Bluetooth	BT5.2
WiFi	802.11 a/b/n/ac
GNSS	support

Feature List

Module	Function	Sub-features
General	Startup Display	Disclaimer
		Porsche-Typical Start Screen
	Status Bar	Time
		Device Connection Status
		Signal
		Bluetooth Switch Status
	Launcher	Application List
		My Screen (MyScreen)
	Application Running in Background	
	Content Function Blocking (CFB)	

	Notification Centre	
	Setup Wizard	
	Dock Bar	Application Entry
Tuner	FM / AM	Full Band Scan
		Playback Controls
		Radio Station List
		Radio Station Name
		RDS Radio Display
		Favourite / Unfavourite
	DAB	Playback Controls
		Radio Station List
		Radio Station Information Display
		Favourite / Unfavourite
	Onlione Radio	Playback Controls
		Radio Station List
		Radio Station Information Display
		Favourite / Unfavourite
	HD Radio	Full Band Scan
		Playback Controls
		Radio Station List
		Radio Station Name Recognition

		Radio Station Information
		Favourite / Unfavourite
Local Media	Bluetooth Music	Supported Protocols
		Media Information
		Playback Controls
	USB Music	Supported Formats
		Media Information
		Playback Controls
		Playlist
		Search and Genres
Media List	Radio FM/DAB/HD Radio	
	Online Radio	List of favorites
		Top 100
		Languages
		Country

		Schools (Genres)
		Podcasts
		Playlist
		Artist

		Album
	USB Music	Composer
		Song
		Tracks
		Compilation
		Audiobooks
Media Options	Adapt sorting of sources	
	Adapt sorting of favourites	
	Radio settings	Display traffic notices
		Station tracking to similar stations
		Online station tracking in case of weak reception
		Alarm messages
		Display View
		Map Information
		Vehicle Icon
		Route Information
		Enlarged View of Intersection
		Map Interface Operation and Display
		Go Home / Go to Office

Navigation	Basic Features	"Return to Vehicle Location" Button
		Tap to mute broadcast / unmute
		Tap to turn on / off "Traffic Display on Map Interface"
		Navigation Preferences
		Route Planning Information Display
		Route Management
		Guidance (TBT Information)
		Exit Navigation
		Alternative Route
		Dynamic Route Calculation
		Weather Warning
		Destination Parking Lot
		Route Editing
		Resumed Navigation
		Voice Broadcast
		Navigation Settings
		Storage Location
	Offline Map	Storage Location
		GPS Signal

		Path Guidance
		POI Search
		Search Along Route
		Nearby
		At destination
Online Map		At stopover
		Presearch
		Search Results
		History
		Real-Time Traffic

		Traffic Signs
	Map Update	Upgrade Method
	Route Prediction	
		Data Field
		Cumulative Total (Continuous)
		Since Ignition (Since…)

Vehicle	TRIP	Customization (Personal)
		Reset trip since
		Reset total trip values
		Reset max trip values
		Reset all trip data
	Assisted Parking	Reversing Camera Display
		3D Car Model
		Park Distance Control (PDC) area
		Daytime Running Lights
		Afterglow Duration
		Automatic Rear Wiper
		Automatic Rear sensor
		Orientation light
		Screen button
		Air conditioning
		Effective Scope of Unlocking

		Auto-Lock
		Door opener
		Return Journey Options
		L/R driving
	Personal Preferences Memory (Individual Memory)	PDC View
		Daytime Running Lights
		Afterglow Duration
		Ambient light
		Fade.out time
		Automatic Rear Wiper
		Automatic Rear sensor
		Lowering mirror
	Configure trip personally	
	Personal Speed limits	
		Bluetooth Pairing
		Automatic Reconnection
	Bluetooth Connection	Synchronise Data after Successful Connection
		Clear Data after Disconnection
	Basic Services	Answer / Hang Up

		Steering Wheel Control
Phone Call	Dual Phone Connectivity	Simultaneous Connection
		Functions Supported
		Set as Primary Phone
	Address Book	Synchronise Data Stored in the Phone
		Display Contacts in Alphabetical Order
		Support Indexing by First Letter

		Support One Tap to Dial
		Contact information
	Phone settings	Delete contacts
		Voicemail number
		Sorting criteria
		Mute navigation during call
	Call Log	Synchronise Data Stored in the Phone
		Contacts Sorted by Time
		Support One Tap to Dial
	Search for Contacts	Search by Initial Letter
		Search by Phone Number

	Favourites	Add favourite	
		Favourites list	
	Phone Call	Answer / On a Call / Hang Up	
		Phone Call Window	
	Dial Pad	Numeric Keypad Display	
		Predictive Number Input	
		Dial	
	ADB	Android Function Debugging	
	Connection Manager	Device name	
	Apple CarPlay		
	Android Auto		
	Factory Reset		
	Switchover for Day/Night Design		
	Brightness	5 to +5	
	Touch tone setting	Off Quiet Medium Loud	
	Switch off central display	You can reactivate the central display by touching it.	
	Navigation anouncements	0 – 10	
	ParkAssist	oud / regular / Quiet	

Settings	Volume lower whenParkAssist is acitve	0 – 5	
	oeed-dependent volumeadaption (only withoutBose or Burmester)	0 – 7	
	Mute navigationduring call	ON / OFF	
	Connected Device Control	Bluetooth Switch	
		List of Connected Bluetooth Devices	
		Device Connection Control	
		Device Permission Control	
		Phone settings	
		Bluetooth setting	
		WiFi settings	
		Configure Wi-Fi hotspots	
		Select preferred phone	
		Select device to use music	
		Select equipment information	
		Select device to use carplay	
		Select device to use call	
		List of known devices	

		Serial number (IMEI)
		Connect new phone
	Connected Device	Connect new music player
		Connect Apple CarPlay
		Connect Android Auto

	Media setting	
		Route Overview
		Avoid
		Alternative routes
	Navigation setting	Display routes whenstarting route guidance
		Further navigation settings
		Receive vehicle messages
	Notification centre settings	Receive smartphone messages
		Receive information messages
	Set date and timeautomaticalky	on / off
	Set time manually	Time selection control
	Set date manually	Date selection control
	Set time zone automatically	on / off

	Set time zone manually	Time zone list selection
	Set time format	12h / 24h
	Set date format	DD.MM.YYYY MM/DD/YYYY YYYY-MM-DD
	Speed and Distance	km/h, km mph, mi
	Temperature	°C °F
	Consumption	l/100km mpg (US) mpg (UK) km/l
	Standby	TBD
	Software information	TBD
	Free and Open SourceSoftware Notice	TBD
	Privacy	Legal Notice
		Data Privacy Information
	Set-up assistant	TBD
	Reset system to factory settings	TBD

Sound Effects Settings	Advanced Sound Effects	Treble and Bass
		Sound Field Focusing
		Surround (only Bose)
		Linear (only Bose)
		AudioPilot (only Bose)
		Smooth (only Burmester)
		Surround (only Burmester)
		Live (only Burmester)
		Sound Conditioner (only Burmester)
		Balance and fader
		Loudness
		Channel Settings
		Speed-Adjusted/-Dependent Volume Control
	MOST Bus	Bose Surround
		Bose Linear
		Burmester Listening Position
		Burmester Smooth
		Burmester Surround
		Burmester Live

	Other Settings	
Others	Text Language	Languages Available in the Device
		Keyboard
		Languages Required for User Manuals
	System Upgrade (Update)	Upgrade (update) via USB
Radio Features	Features Required	Phase Diversity (FM/AM)
		MRC (DAB)
		Background Scan

RF frequency

	Band	TX (MHz)	RX (MHz)
	WCDMA Band V	824 ~ 849	869 ~ 894
	LTE Band 5	824 ~ 849	869 ~ 894
	LTE Band 41	2496 ~ 2690	2496 ~ 2690
	WCDMA Band V	824 ~ 849	869 ~ 894
	Bluetooth- SISO	2400 ~ 2483.5	2400 ~ 2483.5
	Bluetooth LE- SISO	2400 ~ 2483.5	2400 ~ 2483.5
	Wi-Fi 2.4GHz- SISO	2400 ~ 2483.5	2400 ~ 2483.5
	Wi-Fi 5GHz (U-NII-1) MIMO 2*2	5150 ~ 5250	5150 ~ 5250

FCC Frequency	Wi-Fi 5GHz (U-NII-3) MIMO 2*2	5725 ~ 5850	5725 ~ 5850
	GPS L1 C/A	/	1559 ~ 1610
	GLONASS G1	/	1559 ~ 1610
	Galileo E1	/	1559 ~ 1610
	FM	/	87.5 ~ 108
	AM (MF)	/	526.5 kHz to 1606.5 kHz
	DAB	/	174 to 240
Antenna Gain	WWAN antenna gain: 6.85 dBi Bluetooth: 2.90 dBi Wi-Fi 2.4GHz: 5.90 dBi Wi-Fi 5GHz: 7.80dBi		

CE Caution:

RF Exposure

This equipment complies with CE radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body. EU DECLARATION OF CONFORMITY Hereby, PATEO CONNECT Technology (Shanghai) Corporation declares that the radio equipment type PCCM Plus 997/987 II/ PCCM Plus 991/981 I are in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following Internet address: https://www.pateo.com.cn/Restrictions in the 5 GHz band: According to Article 10 (10) of Directive 2014/53/EU, the packaging shows that this radio equipment will besubiect to some restrictions when placed on the market in Belqium (BE), Bulgaria (BG), the Czech Republic(CZ),Denmark (DK), Germany (DE), Estonia (EE), reland (IE), Greece (EL), Spain(ES), France (FR), Croatia(HR), ltaly (IT), Cyprus (CY), Latvia (LV), Lithuania(LT), Luxembourg (LU), Hungary (HU), Malta (MT),

Netherlands (NL), Austria(AT), Poland (PL), Portugal (PT), Romania (RO), Slovenia (SI), Slovakia (SK).Finlanc(FI). Sweden (SE).. Turkey (TR). Norwav). Switzerland (CH). Iceland (IS), and Liechtenstein (LI).

The WLAN function for this device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range.

The radio equipment is so constructed that it can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum.

Manufacturers:

PATEO CONNECT Technology (Shanghai) Corporation Room 3701, No. 866 Dongchangzhi Road, Hongkou District, Shanghai, 200080, PR.China

FCC Statement

FCC Regulations

- 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.
- 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.
- Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with FCC RF Exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for the transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

FAQ

Q: How do I pair my Bluetooth device with the PCM3 Head Unit?

A: To pair your Bluetooth device, go to the Bluetooth settings on the PCM3 Head Unit, search for available devices, select your device, and follow the on-screen instructions to complete the pairing process.

Q: Can I update the maps on the PCM3 Head Unit?

A: Yes, you can update the maps on the PCM3 Head Unit by accessing the map update feature in the settings menu. Follow the on-screen instructions to download and install the latest map updates.

Documents / Resources
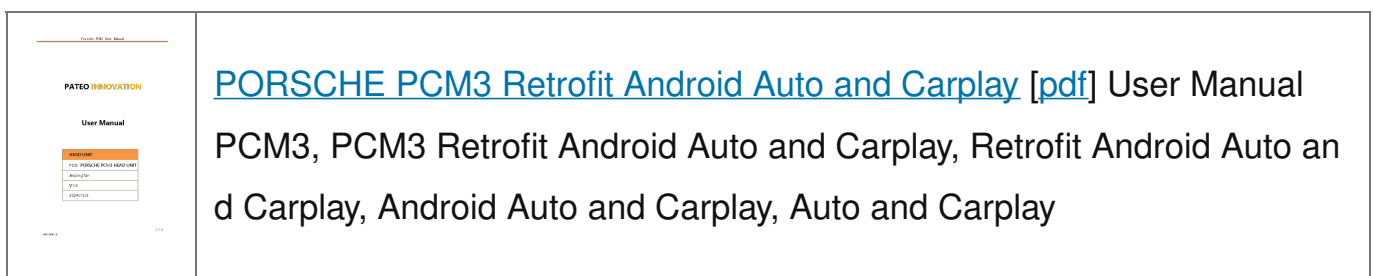
[PORSCHE PCM3 Retrofit Android Auto and Carplay](#) [[pdf](#)] User Manual PCM3, PCM3 Retrofit Android Auto and Carplay, Retrofit Android Auto and Carplay, Android Auto and Carplay, Auto and Carplay

References

- [User Manual](#)

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