

MOTOTRBO™ MOBILE ACCESSORIES

BUYER'S GUIDE







Motorola Solutions mobile radios are perfectly designed for both in-vehicle use or fixed installations at a desk.

In-vehicle radios need to provide drivers and passengers all the functionality of a two-way radio system without causing a distraction to the driver.

A fixed installation at a desk is used by those who need to be part of the conversation but aren't in the field, such as dispatchers.

Every user is different, so Motorola Solutions has multiple vehicle and desk mounting options, as well as a range of audio accessories that can be used to customise the radios for your individual needs.

This guide will help you to better understand the accessory features for the mobile family which will help you to make an informed decision when purchasing equipment.

VEHICLE AND DESK ACCESSORIES

HANDSETS

Motorola Solutions offers a wide range of handset accessories to match how you work. These break down into 6 options:



COMPACT

These are the standard fist mic with a PTT button.



HEAVY DUTY

Bigger than the standard handset and designed to be easy-to-use when wearing gloves.





TELEPHONE STYLE

A larger style handset designed to be held like a telephone. Includes a built-in speaker microphone allowing more discreet communications.



WITH KEYPAD

Comes with touch-tone buttons on the handset, allowing the user to navigate radio menus, enter text messages and make telephone calls using the alphanumeric keypad.



WIRELESS

Bluetooth® enabled handsets can be carried by the user up to 100 metres from the radio while still staying in contact.



HANDHELD CONTROL HEAD

This portable radio style handset provides a colour screen, keypad, PTT, volume adjust and channel select, giving the user full control and allowing the radio body to be mounted anywhere.

IMPRES™ TECHNOLOGY

IMPRES audio technology optimises the performance of your radio by suppressing background noise and improving voice intelligibility, even in noisy situations.

IMPRES technology automatically compensates for changes in voice level, whether you are speaking softly or loudly, turning your head, or moving the microphone further away from your mouth. By using an IMPRES microphone, the quality and consistency of audio communications between team members are improved.



VEHICLE ACCESSORIES

VISOR MICROPHONE

A visor microphone fits to the sun visor or other trim in your vehicle, removing the need to hold a handset microphone as you talk. The visor microphone is omnidirectional meaning it will pick up your speech no matter where it is positioned in relation to your head.

PUSH-TO-TALK (PTT) BUTTONS

PTT buttons are how you trigger your radio to transmit, but sometimes the PTT provided with the radio isn't in a convenient location. Motorola Solutions offers two options; a goose-neck PTT or a PTT with a velcro strap to mount wherever is most convenient when in the vehicle.

EMERGENCY FOOTSWITCH

Some users of two-way radio may frequently find themselves in harm's way. To help users call for assistance in the quickest and most discreet way possible, the mobile family of radios can be fitted with an emergency footswitch located in the footwell of the vehicle.

On activating the emergency footswitch, operators are able to listen in to the vehicle and assess the situation without alerting anyone in or around the vehicle.

EXTERNAL SPEAKERS

For those using their radio in high ambient noise environments or who need to leave their vehicle frequently, it can be difficult to hear messages from the radio. Speakers can be fitted inside or outside the vehicle cabin, allowing you to hear radio communications clearly even when you're outside the vehicle.

MOUNTING

Your team drives a diverse range of vehicles and that is why Motorola Solutions offer a huge range of mounting brackets for mobile radios. There are in-dash mounting kits for fixing the radio into the body of the dashboard, trays for mounting the radio on top of the dashboard, and brackets for mounting anywhere else in the cab. If you are mounting the radio out of arms reach, you might consider installing a remote head or handheld control head to enable radio control while driving.

IGNITION KITS

Radios must be connected to the vehicles electrical system which means radios left on at the end of a shift can drain the battery, or messages can be missed when users forget to turn their radio on at the start of their day. Ignition kits remove both of these issues by turning the radio on and off automatically when the key is turned in the ignition.

ANTENNAS

Antennas come in multiple lengths, frequency bands, and with or without GPS/GLONASS connectivity for location tracking of vehicles.

The length of an antenna is quoted in relation to the frequency it operates on. For instance, a 1/4 wave 400MHz antenna would be about 19cm long, and a 1/4 wave antenna at 140Mhz would be 53cm long.

Gain is a measure of how efficiently an antenna transmits or receives radio waves and can impact the distance over which the radio will operate.

Radio-only antennas enable voice and data communications with your mobile radio, keeping your team connected. GPS/GLONASS antennas connect to global positioning systems to locate radios with this functionality. Alternatively, some antennas can perform communications and positioning at the same time, reducing the amount of equipment required and installation complexity.

DESK MOUNT ACCESSORIES

DESKTOP MICROPHONE

The Desktop Microphone provides a more practical solution for users with a fixed mobile radio at their desk. It sits on the desktop rather than requiring a fixing bracket and can be moved to the most convenient position at the user's workstation, or positioned out of the way when not required.

POWER SUPPLIES

Desktop power supplies for mobile radios are highly efficient level V units which can accept a wide range of voltages while still delivering a high power output (up to 15A) wherever you are in the world.





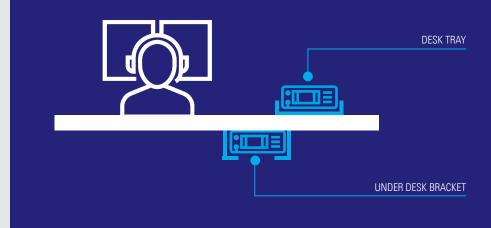
DESKTOP TRAY (WITHOUT SPEAKER)



KEY LOCK TRUNNION KIT

MOUNTINGDook mounting of the

Desk mounting of the mobile radios can be achieved either with a desktop tray that allows the radio to sit on the desk of the user, or a bracket that can mount the radio under the desk. The desktop trays have options for built-in power supplies and speakers. All of these options provide desk workers with the flexibility they need to perform at their best.



MOBILE ACCESSORIES

MOUNTING TYPES

THROUGH-HOLE

The antenna is fitted into a hole drilled through the mounting surface. The wire of the antenna comes out the bottom of the antenna once the antenna is mounted into the hole.

GLASS

The antenna comes with a sticky pad on the base that can adhere to the vehicle's windscreen.

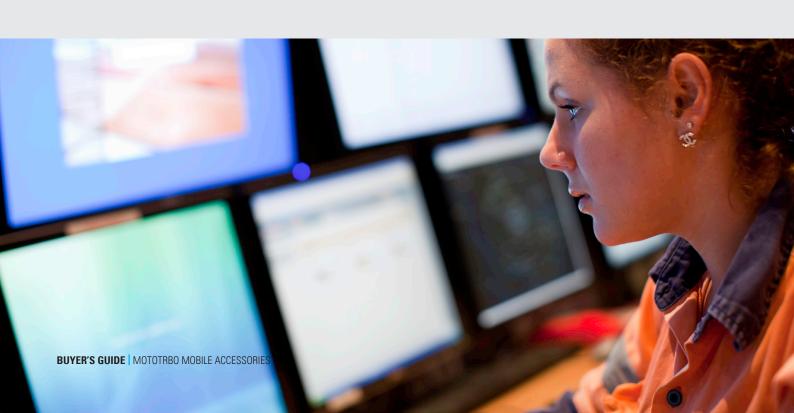
MAGNETIC

The base of the antenna is magnetic and can attach to the bodywork of the vehicle.

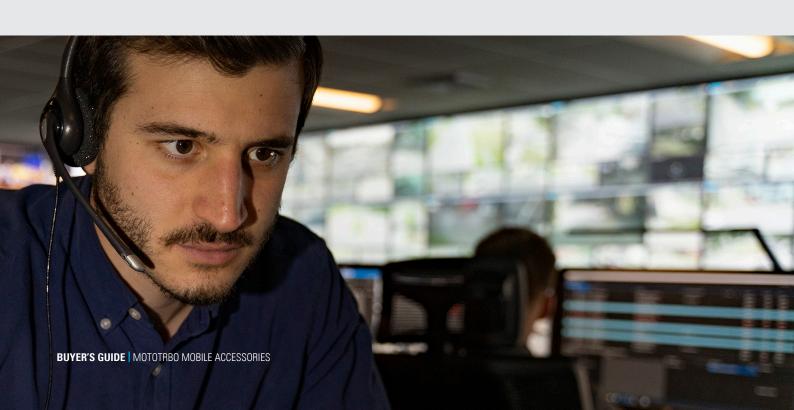


GPS ANTENNA								
MODEL NUMBER	DESCRIPTION		COMPATIBILITY					
WIUDEL NUWIDEN	DESCRIPTION		DM1000	DM2000	DM4000e			
PMAN4000	Discreet stand-alone GPS/ GLONASS antenna has a semi-permanent mount easily assembled with minimal tools to vehicle roof or boot	 Mount: Through-hole Dimensions: 64 (D) x 13 (H)mm CE: No 	-	-	✓			
PMAN4008	Discreet stand-alone GPS/ GLONASS antenna has a semi-permanent mount easily assembled with minimal tools to vehicle roof or boot	 Mount: Through-hole Dimensions: 64 (D) x 13 (H)mm CE: Yes 	-	-	✓			
PMAN4009	Glass mounted GPS antenna for Mobile radio users who have existing mobile antennas and want to add GPS capability	• Mount: Glass • RTTE: No	-	-	✓			
PMAN4001	Glass mounted GPS antenna for Mobile radio users who have existing mobile antennas and want to add GPS capability	Mount: GlassRTTE: Yes	-	-	✓			
PMAN4010	GPS/GLONASS antenna can be mounted either magnetically, via screw or tape to vehicle roof or boot	Mount: MagneticDimensions: 51x44x14 (LxWxH)mm	-	-	✓			

RADIO ANTENNA								
MODEL NUMBER	DESCRIPTION		COMPATIBILITY DM1000 DM2000 DM4000e					
RAD4198	Frequency Range: 136-144MHzType: ¼ waveGain: 3dB	Connector: BNCMount: Through-hole	✓	√	√			
RAD4199	Frequency Range: 146-150.8MHzType: ¼ waveGain: 2dB	Connector: BNCMount: Through-hole	✓	✓	✓			
RAD4200	Frequency Range: 150.8-162MHzType: ¼ waveGain: 2dB	Connector: BNCMount: Through-hole	✓	√	✓			
RAD4201	Frequency Range: 162-174MHzType: ¼ waveGain: 2dB	Connector: BNCMount: Through-hole	✓	✓	✓			
PMAD4107	Frequency Range: 350-400MHzType: ¼ wave	Connector: BNCMount: Through-hole	✓	✓	✓			
RAE4151	Frequency Range: 403-430MHzType: ¼ waveGain: 3.5dB	Connector: BNCMount: Through-hole	✓	✓	✓			
RAE4158	Frequency Range: 406-420MHzGain: 3.5dB	Connector: BNCMount: Through-hole	✓	✓	✓			
RAE4152	Frequency Range: 450-470MHzType: ¼ waveGain: 3.5dB	Connector: BNCMount: Through-hole	✓	✓	✓			
RAE4154	Frequency Range: 450-470MHzType: ¼ waveGain: 5dB	Connector: BNCMount: Through-hole	✓	✓	✓			
HAE6021	Frequency Range: 403-527MHzType: ¼ waveGain: 2dB	Connector: BNCMount: Through-hole	✓	✓	✓			



RADIO AND GPS ANTENNA								
MODEL NUMBER	DESCRIPTION		COMPATIBILITY					
			DM1000	DM2000	DM4000e			
RAD4219	• Frequency Range: 136-144MHz • Type: 1/4 Wave	Connector: BNCMount: Through-hole	-	-	✓			
RAD4220	• Frequency Range: 146-150.8MHz • Type: ¼ Wave	Connector: BNCMount: Through-hole	-	-	✓			
RAD4222	• Frequency Range: 162-174MHz • Type: ¼ Wave	Connector: BNCMount: Through-hole	-	-	✓			
PMAE4035	• Frequency Range: 403-430MHz • Type: ¼ Wave	Connector: BNCMount: Through-hole	-	-	✓			
HAE6017	Frequency Range: 403-527MHzType: ½ WaveGain: 2dB	Connector: BNCMount: Through-hole	-	-	✓			
PMAE4036	Frequency Range: 406-420MHzType: ¼ WaveGain: 3.5dB	Connector: BNCMount: Through-hole	-	-	✓			
PMAE4037	• Frequency Range: 450-470MHz • Type: 1/4 Wave	Connector: BNCMount: Through-hole	-	-	✓			
PMAE4038	 Frequency Range: 450-470MHz Type: 5% wave Gain: 5dB 	Connector: BNCMount: Through-hole	-	-	✓			
HAE6025	 Frequency Range: 470-494MHz Type: 5/2 wave Gain: 3dB 	Connector: BNCMount: Through-hole	-	-	✓			
HAE6023	Frequency Range: 494-512MHz Type: 5/2 wave Gain: 3dB	Connector: BNCMount: Through-hole	-	-	✓			



MOUNTING								
MODEL NUMB	ER	DESCRIPTION		C(DM1000	OMPATIBILIT DM2000	TY DM4000e		
GLN7326	000	 Desktop Tray (with Speaker) Provides a secure mount for mobile radios placed on the desk 	 Provides increased volume when receiving in high noise environments. For use with HPN4007 power supply unit 	✓	₩2000	- -		
GLN7318		 Desktop Tray (without Speaker) Provides a secure mount for mobile radios placed on the desk 	• For use with HPN4007 power supply unit	✓	✓	✓		
HPN4007		Desktop Power Supply 1-60WAC input voltage range: 90 to 275 VAC	 Output Current: 15A Max Operating Temperature Range: 0 to 50°C Efficiency Rating: Level V 	✓	✓	✓		
PMPN4076		 Wedge Power Supply 1-10W 115-230 VAC input voltage range 6 Amp continuous usage 	Small compact designTrue desktop styling	-	✓	✓		
PMMN4098		 Desktop Microphone Makes transmission easier for basestation users Large Push-to-Talk Button 	 Microphone sensitivity can be adjusted by the user, ensuring messages are heard no matter who is talking 	✓	✓	-		
RMN5050		Desktop MicrophoneMakes transmission easier for basestation users	• Large Push-to-Talk Button	-	-	✓		
FTN6083		• In-dash Mounting Kit	 For users who prefer to mount the radio directly into the dashboard for a better appearance, or to keep it from being an obstruction in the vehicle 	✓	✓	-		
RLN6465		• In-dash Mounting Kit	 For users who prefer to mount the radio directly into the dashboard for a better appearance, or to keep it from being an obstruction in the vehicle 	-	-	✓		
RLN6466	(€::Э <u>:</u> [()	• Low Profile Trunnion Kit	 Mounting bracket that keeps a radio placed under the dashboard and can also be positioned for floor mount 	✓	✓	✓		
RLN6467	<u>.</u> ∈.∵⊃.	High-profile Trunnion Kit	 Mounting bracket for under the dashboard with extra clearance so the radio can be tilted for a better view. It can also be used for floor mounting 	✓	✓	✓		
RLN6468	() ()	Key Lock Trunnion Kit	 Mounting bracket with key lock provides extra protection from theft 	✓	✓	✓		
PMLN6404		 MOTOTRBO Remote Mount Adaptor Kit Connection cables PMKN4143 and PMKN4144 available separately 	 Allows the radio head to mounted separately from the radio body for improved security and greater installation flexibility 	-	-	✓		
HLN9073	The second second	Allows the microphone to be hung in a convenient location		✓	✓	✓		



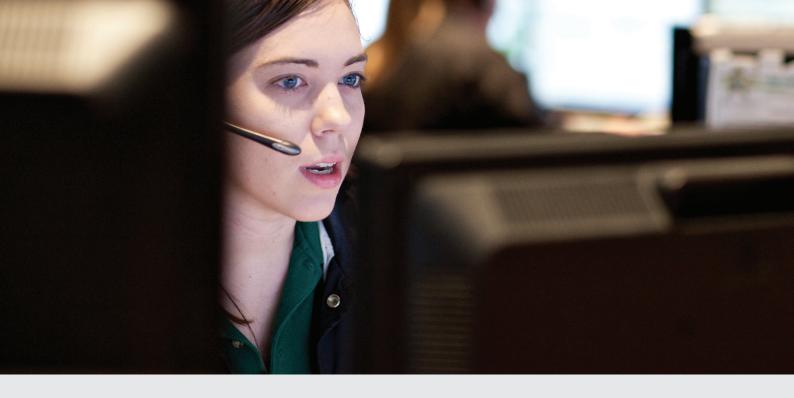
HANDSETS								
MODEL NUMBER	DESCRIPTION		COMPATIBILITY					
WODEL NOWIDER	DESCRIPTION		DM1000	DM2000	DM4000e			
PMLN6481	Telephone Style Handset Allows transmit and receive on the same handset	 Built in PTT Volume control through radio Includes handset, hang-up cup and mounting bracket 	✓	✓	-			
PMMN4089	Enhanced Keypad microphone features a backlit DTMF keypad	 Generates the standard tones needed by users to access tele phone communication systems and write text messages 	✓	✓	-			
PMMN4090	Compact Microphone (with Clip)	Standard Compact Palm Microphone	✓	✓	-			
PMMN4091	Heavy Duty Palm Microphone	Durable and larger, designed to use for the end users wearing gloves	✓	✓	-			
HMN4098	IMPRES Telephone Style Handset	 Provides a flexible, discreet option when using for private conversations Includes handset, hang-up cup and mounting bracket 	-	-	✓			
MDRLN6551	 Long Range Wireless Mobile Radio Solution Up to 100 metres range from the vehicle Battery Life (Typical, 5/5/90): 28Hrs 	 RSM comes with emergency button, volume control, 3.5mm audio jack, and a task light Includes Bluetooth gateway with wired microphone, Wireless RSM and charger 	-	-	✓			



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MODEL NUMBER	DESCRIPTION		C(DM1000	DMPATIBILIT	TY DM4000e			
GMLN5453	 Long Range Wireless Mobile Radio Solution with Desk Charger Kit Up to 100 metres range from the radio 	 Battery Life (Typical, 5/5/90): 28Hrs Desktop charger included with EU plug Belt clip included 	-		₩			
GMLN5454	 Long Range Wireless Mobile Radio Solution with Desk Charger Kit Up to 100 metres range from the radio 	 Battery Life (Typical, 5/5/90): 28Hrs Desktop charger included with UK plug Belt clip included 	-	-	✓			
RMN5052	Standard Compact Microphone	 Provides basic Push-to-Talk and microphone functionality 	-	-	✓			
RMN5053	IMPRES Heavy Duty Microphone For users who want more durability	 Ideal for those who need larger microphone that is easier to handle when wearing gloves 	-	-	✓			
RMN5127	 IMPRES Keypad Microphone for users wanting higher audio quality Four navigation buttons for full-colour display navigation Three programmable shortcut buttons to enable easy access to regularly used features. 	12-digit DTMF keypad generates the standard tones needed by users to access telephone communication systems and write text messages	-	-	✓			
PMLN7131	 Handheld control head for mobile radios Allows the radio body to be mounted anywhere in the vehicle while providing control of all functions on the handset Kit includes control head, adaptor, hang-up clip, and 3m cable 	 Extension cables PMKN4173 and PMKN4174 are available. Colour screen Volume control Channel select Full keypad PTT 	-	-	✓			

MICROPHONES AND ACCESSORIES								
MODEL NUM	IRFR	DESCRIPTION			OMPATIBILIT	ГҮ		
MODEL HOM		Decomi from		DM1000	DM2000	DM4000e		
GMMN4065		Visor Microphone	 Small microphone mounts to vehicle's visor for convenient hands-free radio operation 	✓	✓	-		
RMN5054	40	Visor Microphone IMPRES technology	 Small microphone mounts to vehicle's visor for convenient hands-free radio operation 	-	-	✓		
RLN4857		Pushbutton Push-to-Talk	 Fitted with a velcro strap to allow attachment anywhere within the vehicle 	✓	✓	-		
RLN5926		Pushbutton Push-to-Talk	 Fitted with a velcro strap to allow attachment anywhere within the vehicle 	-	-	✓		
RLN4858		Gooseneck Push-to-Talk	 Placed on the steering wheel column or other convenient locations, it remotely activates the microphone 	✓	✓	-		
RLN4836		Emergency Footswitch	 Easily and secretly triggers an emergency signal that is sent to dispatchers 	✓	✓	-		
RLN5929		Emergency Footswitch	 Easily and secretly triggers an emergency signal that is sent to dispatchers. 	-	-	✓		





EXTERNAL SPEAKERS								
MODEL NU	IMPED	DESCRIPTION		CC)MPATIBILI1	ГҮ		
MIODEL NO	JIVIDEN	DESCRIPTION		DM1000	DM2000	DM4000e		
RSN4001	S metrons	• External Speaker - 13W	 For professionals who require louder radio volume output to compensate for high levels of background noise or need to hear their radio outside the vehicle. 	✓	✓	-		
RSN4002	© mattered	• External Speaker - 13W	 For professionals who require louder radio volume output to compensate for high levels of background noise or need to hear their radio outside the vehicle. 	-	-	✓		
HSN8145		• External Speaker - 7.5W	 For professionals who require louder radio volume output to compensate for high levels of background noise or need to hear their radio outside the vehicle. 	✓	√	-		
RSN4003		• External Speaker - 7.5W	 For professionals who require louder radio volume output to compensate for high levels of background noise or need to hear their radio outside the vehicle. 	-	-	✓		
RSN4004		• External Speaker - 5W	 For professionals who require louder radio volume output to compensate for high levels of background noise or need to hear their radio outside the vehicle. 	-	-	✓		

CABLES								
MODEL NUI	MBER	DESCRIPTION		COMPATIBILITY				
				DM1000	DM2000	DM4000e		
GMKN4084		Speaker Extension Cable		✓	✓	-		
HKN4137		Standard mobile power cable Connects to vehicle battery to the radio	 3m (10ft) long 14 AWG Rated to 15A	✓	✓	✓		
HKN4191		High power mobile power cable Connects to vehicle battery to the radio	 3m (10ft) long 12 AWG Rated to 20A	✓	✓	✓		
HKN4192		High power mobile power cable Connects to vehicle battery to the radio	6m (20ft) long10 AWGRated to 20A	✓	✓	✓		
HKN9327		Ignition switch cable Connects between vehicle ignition and radio to only turn the radio on when the vehicle is on	 3A fuse to protect vehicle and radio 6m (20ft) long 	✓	✓	-		
RKN4136	070	 Ignition switch cable Connects between vehicle ignition and radio to only turn the radio on when the vehicle is on 	3A fuse to protect vehicle and radio6m (20ft) long	-	-	✓		
3060665A04	0	Power Supply Cable (US plug)	• For use with HPN4007 and PMPN4076 PSUs	✓	✓	-		





CABLES						
MODEL NUM	MBER	DESCRIPTION			OMPATIBILIT	
NTN7374		Power Supply Cable (EU plug)	• For use with HPN4007 and PMPN4076 PSUs	DM1000	DM2000	DM4000e -
NTN7375	*O /	Power Supply Cable (UK plug)	 For use with HPN4007 and PMPN4076 PSUs 	✓	✓	-
NTN7373	0	Power Supply Cable (US plug)	 For use with HPN4007 and PMPN4076 PSUs 	-	-	✓
NTN7374		Power Supply Cable (EU plug)	 For use with HPN4007 and PMPN4076 PSUs 	-	-	✓
NTN7375	7Q"	Power Supply Cable (UK plug)	 For use with HPN4007 and PMPN4076 PSUs 	-	-	✓
PMKN4147		Mobile programming cable	 Allows the radio to be programmed from the front of the radio for ease of programming 	✓	✓	-
HKN6184		Mobile programming cable	 Allows the radio to be programmed from the front of the radio for ease of programming 	-	-	✓
PMKN4010		Mobile programming cable	 Allows the radio to be programmed from the rear accessory connector 	-	-	✓
PMKN4173		 Handheld control head extension cable - 3m Can be used with the handheld control head (PMLN7131) 	 Allows the radio to be positioned 3m away from the control head, providing maximum flexibility for the placement of the radio 	-	-	✓
PMKN4174		 Handheld control head extension cable - 5m Can be used with the handheld control head (PMLN7131) 	 Allows the radio to be positioned 5m away from the control head, providing maximum flexibility for the placement of the radio 	-	-	✓
PMKN4143		Remote mount cable - 3m For use with PMLN6404 remote mount kit	Allows the radio body to be mounted up to 3m from the control head, providing maximum flexibility for the placement of the radio	-	-	✓
PMKN4144		Remote mount cable - 5m For use with PMLN6404 remote mount kit	 Allows the radio body to be mounted up to 5m from the control head, providing maximum flexibility for the placement of the radio 	-	-	✓



To learn more about MOTOTRBO, visit www.motorolasolutions.com/MOTOTRBO

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