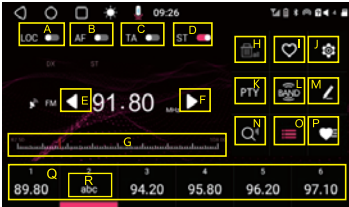## 3. AM/FM Radio

3.1. How to operate Radio app：

[Figure 25]

Touch ◯ to performs non-stop seek tuning.

Touch ◁ ▷ once to search stations forwards or backwards, press and hold ◁ ▷ and release it to skip stored stations forwards or backwards.

Touch ▤ to display all the searched stations.

LOC ●●: LOC Switch. LOC is an abbreviation of local. Enabling this
option means specially for local frequency handling.
TA ●●: TA: Enable this option means turning on TA(traffic announcement).
ST ●●: Stereo Channel reception switch.

Touch PTY to display all the preset RDS channels and users can choose any one desired channel to search.

PTY (programme type)

This coding of up to 31 pre-defined programme types (e.g., in Europe: PTY1 News, PTY6 Drama, PTY11 Rock music) allows users to find similar programming by genre.

Touch ♡ to save current radio station to favorites, Click again to remove it from favorite list.
Touch ▤ to display all the favorite stations.
In favorite radio station list, touch 🗑 to remove all radio stations in favorites
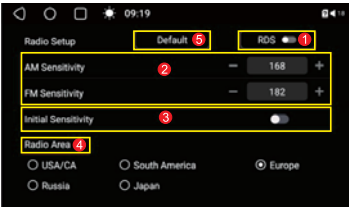Touch ✎ to give a name to current radio frequency (see Figure 26).

[Figure 26]

Touch 🔘 to shift between FM and AM stations.

Notice:
There are 18 preset FM radio stations and 12 preset AM radio stations. All are initially filled with the first frequency number. When you click SCAN/ Search, new received radio stations will replace these default frequency numbers.

3.2. Radio Settings

Touch 🔘 in Figure 2xx to enter into Radio Settings (Figure 27)

[Figure 27]

①: Click to restore radio settings.
②-③: Radio reception sensitivity Switch. The default option is initial sensitivity, which is recommended choice for daily use. If you find the number of radio stations received fewer than expected, or audio quality of these stations received is not good, you can switch to <Manual> mode. Too low sensitivity value may result in receiving too many bad quality stations.

④: Select your radio area. Different areas may have different radio frequency range and scan step. Wrong radio area chosen may result in less radio station reception. Please choose correct one following the below form:

Area	FM range(MHZ)	AM range(kHz)	FM step(MHZ)	AM step(kHz)
USA/Canada	87.5~108	530~1720	0.1	10
South America	87.5~107.9	530~1710	0.2	10
Europe	87.5~108	522~1620	0.05	9
Russia	87.5~108	522~1620	0.03	9
Japan	76~99	522~1629	0.1	9

⑤: RDS ●● RDS Switch. <RDS> is an abbreviation of Radio Data System. In the USA, it is also called RBDS. Enable this option means turning on TA(traffic announcement), and TP(traffic programme) features.
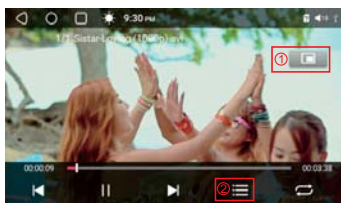
ATTENTION:

● The radio tuner with RDS doesn't include the TMC function, users can obtain real traffic info via the installed online Google map.
● S8 comes with an RDS (Radio Data System) function on the condition that the radio station of the area transmitting the RDS signal. On no RDS signal area, the FM/AM will be available automatically. The unit supports RDS RT (radio text) function, which displays under the current playing frequency.

4. Video Player

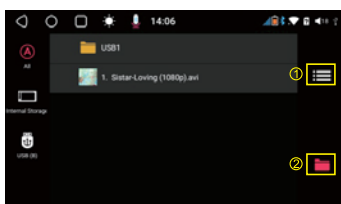### 4.1. How each button/icon works?
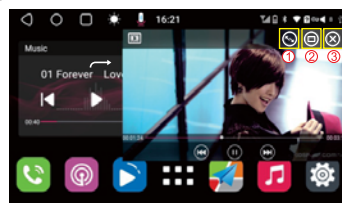

[Figure 28]

Touch ◄◄ ►► to skip files forward or backward, press ❚❚ to play or pause.

Click ☰ to view available video files from external USB flash drive, micro SD or built-in storage.

[Figure 29]

Click ☰ in Figure 29 to only view video file in list. And click ▬ to view video file folder

Touch ⟲ in Figure 28 to switch among <repeat one>, <repeat all>, <random play>.

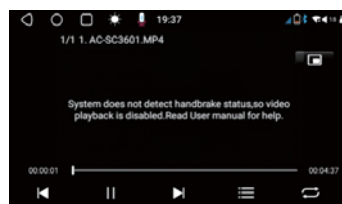Click ▭ in Figure 28 to make the video window smaller and float on the system interface.

[Figure 30]

Click ◉ in Figure 30 to enlarge or shorten current window
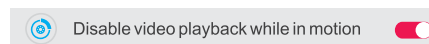
Click ◉ in Figure 30 to view video in full screen

Click ⊗ in Figure 30 to close video playback window

4.2. Further information about <Disable video playback while in motion>

[Figure 31]

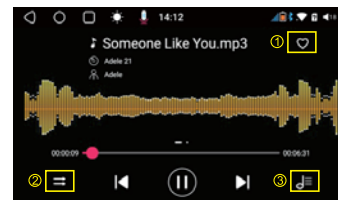⊙ Disable video playback while in motion

[Figure 32] Path: System Settings>General>Disable video playback while in motion

For your safety, users cannot watch videos while driving the vehicle. There is a specific cable labeled as <Parking Brake> from the back of ATOTO S8 for detecting the status of your vehicle's hand brake (if applicable). When it is correctly connected and the option in Figure 32 is enabled, you will see a notice (Figure 31) on the video playback screen while your vehicle is in motion, and it will disappear once your vehicle is parked and your hand brake is applied.

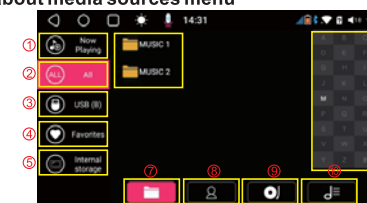## 5. Music Player

5.1. How each button/icon on Music app works

[Figure 33]

① :Touch ♡ to save current song to favorites, click again to remove it from favorite list.

② :Touch ⟲ to shift among <repeat one>, <repeat all>, <random play>.

③ :Click ♫ to view available music files from external USB flash drive, micro SD or internal storage.

5.2. More about media sources menu

[Figure 34]

① Click ▶ to return to current playback display

② Click ᴬᴸᴸ to view all music files including external storage and internal storage;

③ Click ▭ to view music files in external storage

④ Click to view music files in favorites

⑤ Click to view music files in system internal storage

⑥ Area ⑥ in Figure 34 is used to quickly search for music files using the first letter

⑦ Click ▭ to view music files sorted by folder name

⑧ Click 👤 to view music files sorted by Singer

⑨ Click ◉ to view music files sorted by album

⑩ Click ♫ to view music files sorted by song tittle.

Note:
The Music player app has a memory function and can play from where it is left last time. In order to add all the latest music files in the external storage into the playlist, The Music app will automatically scan the device every time after mounting the external storage.

6. GPS Map & Navigation (GPS antenna/GPS map installation/offline map);

6.1. The GPS antenna port is only available on selected double din models. Other models without this port mean a built-in antenna has been integrated.
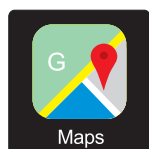**6.2. The S8 has a GPS positioning chip inside, and a GPS antenna port is provided at the rear(labeled GPS).Users can run the pre-installed Google Maps app for online navigation.**
You need to connect the GPS antenna before powering up the S8. If the antenna is connected after S8 is powered up, the antenna will not work properly and you will not get GPS signal reception.
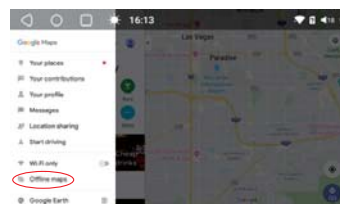
[Figure 34.1]

6.3. Google Maps app has been pre-installed in S8, but it still requires connection to network to work properly.
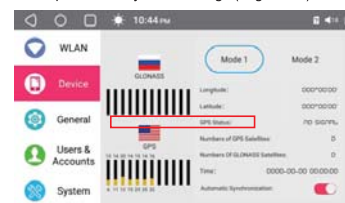
[Figure 34.2]

More information about network connection and internet access, refer to Chapter 8.1/8.2. Google Maps app has an option in settings (see Figure 35) allowing users to download map data for offline navigation. But not available for all areas / countries.

[Figure 35]

6.4. What should I do when the map software indicates no GPS signal?
Check GPS Signal reception from system settings (Figure 36)：

[Figure 36]

If it shows no signal, please check whether the GPS antenna is correctly connected, and whether situation mentioned in 6.2 happened; Or contact your dealer for GPS antenna replacement;

If system shows good GPS signal reception, please change for another GPS map app, or restore the S8 system to fix the issue.

6.5. Alternative GPS map & navigation apps

(1).TomTom GPS Navigation
(2).iGO Navigation
(3).Sygic GPS Navigation & Maps
(4).HERE WeGo – City Navigation
(5).Waze – GPS, Maps, Traffic Alerts & Live Navigation
You may find more GPS navigation maps from Google Play Store. Some of them may become incompatible with S8 in the future, and some of them may not provide offline map data download for all countries.

6.6 About Navigation Auto Start feature

[Figure 37]

There is a shortcut icon on the Home menu (see Figure 37) for a user to specify one app as a response. Once a certain app is specified and the <Auto Start Switch> option in system settings (see ② Figure 92) is enabled, this app will pop up automatically each time system is powered up.

7.Phone Link-Apple CarPlay,Android Auto, EasyConnection

7.1 Apple CarPlay & Android Auto Connection

Apple CarPlay and Android Auto are car assistants that help you access certain features of your phone, through an in-car entertainment system (i.e. ATOTO S8 Android car stereo). With it you can do a variety of things like navigating, listening to music, or checking short messages using just voice commands or by using buttons in your car.

Plugging your phone into the car entertainment system offers drivers both convenience and safety. Fewer distractions and temptations to glance over at the phone while driving. And you can access your favorite navigation apps from your phone plus listen to your playlists and take calls hands-free. Usually, they are also abbreviated as CP and AA respectively.
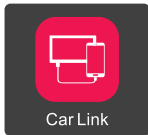
7.1.1 How it works on ATOTO S8 Series?

A built-in communication IC chip is used to coordinate information exchange between the Android car stereo and the smartphone. Also, there is a specific CarLink app in S8 models to handle and display the content supported by the CPAA function on the S8 screen.

Apple CarPlay requires an iPhone 6 or newer model with the latest version of iOS, and Android Auto is compatible with Android phones Android 6.0 and up. Android Auto may not be available on all devices. You have to install the Android Auto app on your Android smartphone before you can use the Android Auto feature on a car stereo.

Steering wheel position(See ④ in Figure 94).
Path: System>General>Steering wheel position
You can change the CarPlay & Android Auto display layout through the S8 settings to adapt left-hand/right-hand drive vehicles.
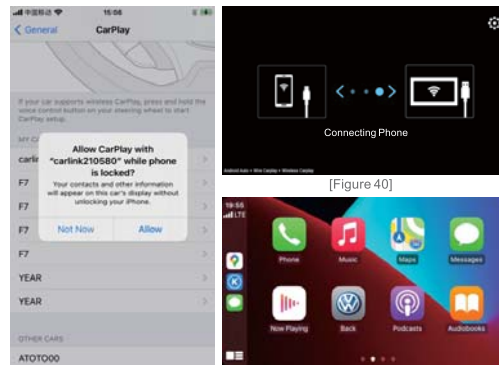
[Figure 38]

7.1.2 CarPlay
Wired CarPlay Connection
Step 1. Connect your iPhone to the specified <PhoneLink> port which goes from the rear USB Interface;
Step 2. Run the CarLink app from the S8 android car stereo (see Figure 38). You will see a pop-up window (asking for permission, see Figure 39) from your phone screen, and you are required to click <Allow>.
Step 3. The CarLink app will build a connection between your iPhone and S8 (see Figure 40), and then the CarPlay feature will display on your S8 screen (Figure 41) and there is a CarPlay icon displayed on your iPhone screen.

[Figure 39]

Connecting Phone

[Figure 40]

[Figure 41]

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Wireless CarPlay Connection

Step 1. To use Wireless CarPlay, make sure your iPhone's Bluetooth is connected to S8's Bluetooth 1. When you connect the iPhone to the S8's Bluetooth for the first time, it will detect and find that the S8 model has wireless CarPlay, and then pop up a window on your screen (see Figure 42). You need to click <Use CarPlay> on your iPhone.
Step 2. Turn on WLAN on your phone, and ensure that your iPhone's WLAN is not connected to any Wi-Fi hotspot (for example, the user's car Wi-Fi router, or the CarLink_xxx of the CarPlay);
Step 3. Run the CarLink app from S8 and it will build a wireless connection between your iPhone and S8 (see Figure 40), and then the CarPlay feature will display on your S8 screen (Figure 41).
At this time, you will see a special network Called CarLink_xxx displays on your iPhone WLAN list (see Figure 43). Please kindly make sure the CarLink_xxx hotspot of the CarPlay is always displayed(no need to connect) on the NETWORKS list of your iPhone(see Figure 43).
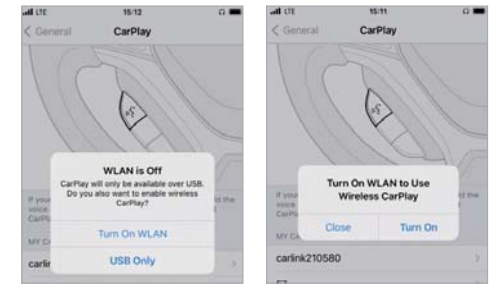If your iPhone is connected to a Wi-Fi hotspot, the Wireless CarPlay will disconnect automatically or not work properly.

[Figure 42]   [Figure 43]

If your iPhone's WLAN option is disabled and you are connecting your iPhone to S8 via USB cable, you may have a pop-up window (see Figure 44) on your phone to confirm which connection method to select in the next step. If you occasionally find that the Wireless CarPlay will not automatically connect, the most likely causes are that the WLAN of your iPhone was manually disabled before you returned to the vehicle, or your phone is still connected to another WiFi hotspots though you are in the vehicle. You need to turn on iPhone's WLAN option (see Figure 45) or disconnect from another WiFi hotspot.

[Figure 44]   [Figure 45]

*The S8 model that comes with the Wired CarPlay feature may not have a Wireless CarPlay option. This feature is only available on selected S8 models.
*If you are owning an S8 that comes with Wireless CarPlay and you only hope to use Wired CarPlay connection, you need to disable iPhone's WLAN option.
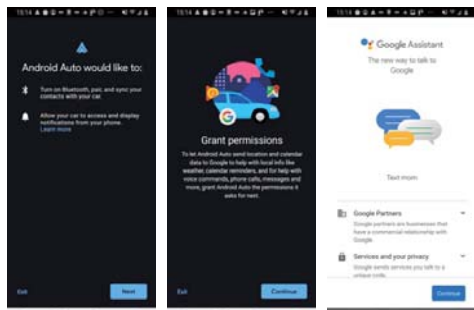
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7.1.**3 Android Auto**

Wired Android Auto Connection :
Step 1. To use the Android Auto feature on S8, you need to install the Android Auto app on your Android phone first. Search < Android Auto> on Google Play Store and install it if your phone is not pre-installed with this app. If you are unable to install this app from Google Play Store, it means Android Auto is incompatible with your phone, or it is not available in your country.
Step 2. Connect your phone to the specified <PhoneLink> port which goes from the rear USB Interface;
Step 3. Run the CarLink app from the S8 android car stereo (see Figure 38). You may see some pop-up windows (see Figure 46 & Figure 47) from your phone screen when connecting for the first time, please click <Allow> or <Yes> to proceed and complete all the requirements popped on your phone, otherwise, the Android Auto won´t run and display a black screen.
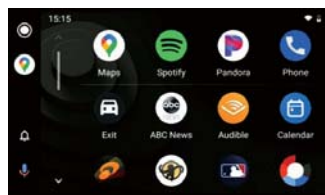
[Figure 46]　　　[Figure 47.1]　　　[Figure 47.2]

Step 4. The CarLink app will build a connection between your Android phone and S8 (see Figure 40), and then the Android Auto feature will display on your S8 screen (Figure 48) and there is an Android Auto icon displayed on the phone's screen.

[Figure 48]

Android OS in different Android phone brands is deeply customized, and the hardware/firmware of Phone Bluetooth is totally different, so Wireless Android Auto is not available on the ATOTO S8 series.

7.1.**4 Attention:**
*The ATOTO S8 requires the user to use the factory/original USB cable that comes with the phone for Android Auto / CarPlay connection. Non-manufacturer made USB cable may easily cause connection issues, such as a black screen after minutes of playback, or an unstable phone connection. For the original USB cable, the connection may also fail due to unstable contact of the USB interface, please try to unplug and connect it again. Please do not try to add any extension USB cable, as none of them is qualified for CPAA connection.
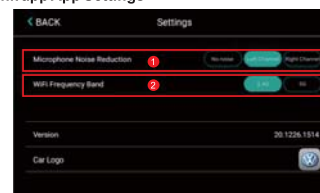* If you follow all the steps above and still find that the CarLink app cannot automatically connect and load the CarPlay or Android Auto display, please restart the phone and S8 respectively and try again. In some cases, you may need to clear the connection record on the mobile phone and initialize the connection again.

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* Due to the limitation of Android system architecture, S8 regards CarLink's audio and the audio of local media apps (BT Music / Radio / Music / AUX) as mutually exclusive. In other words, they cannot output sound at the same time. You can´t use maps in CPAA while listening to the radio or playing music from a USB flash drive. Actually, the navigation app and media app in CarLink can run simultaneously.

7.1.5 CarLink app App Settings

[Figure 49]

①.Microphone Noise Reduction. This option is used to improving the quality of phone calls using Carplay. If your vehicle is RHD type (right-handed drive), we recommend that you choose the <Right Channel>, And vice versa;
②.Wifi Frequency Band. Select the one that your phone can support. 5G band is highly recommended for a more stable connection.

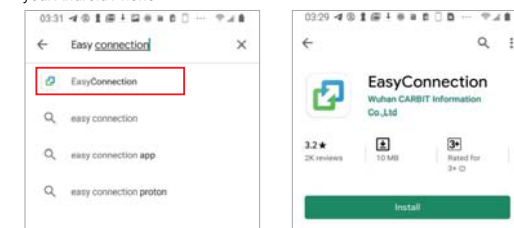**7.2 EasyConnection (also known as Phone screen mirroring or Mirrorlink)**
7.2.1 How EasyConnection works?
This feature allows displaying the smartphone's screen on the S8' display screen via wired USB or WiFi wireless connection. A specified app called EasyConnection built in to fulfill this function. You can use the phone's GPS navigation app (Google Maps, Waze, Tomtom, etc.) for online navigation, or let your phone's video app (YouTube, etc.) displays on S8's screen. It is compatible with selected Android phones and iPhones.

7.2.2 Setup of EasyConnection for Android Smartphone.
7.2.2.1. Set up EasyConnection via USB Connection
Step 1. Find EasyConnection app from Google Play Store and install it to your Android Phone
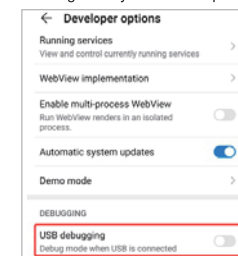
[Figure 50]　　　　　　　[Figure 51]

If you still have problem installing it to your Android phone, contact ATOTO customer support (support@myatoto.com) for requesting download link
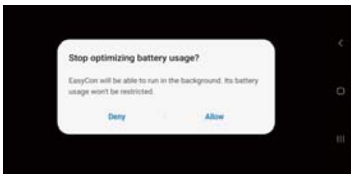**Step 2.** Enable USB Debug from system Developer Options

[Figure 52]

If you do not know how to find Developer Option for your Android smartphone, please search on google with keywords like <Samsung S9 Developer Options> for solutions. For some phones, this step is not required;
Step 3.Plug phone to S8's specified USB, click yes to all pop-up from phone side, then run EasyConnection app on S8.

[Figure 53]

The latest operation steps for Android smartphones may be changed in future. You can visit https://support.myatoto.com for the latest information.
7.2.2.2. Setup EasyConnection via WiFi connection
In Step 3 (phone's screen is cast to S8), if ATOTO S8 is connected to phone's Wi-Fi Hotspot, or both S8 & phone are connected to a third-party Wi-Fi hotspot(e.g. portable WiFi router device), then unplug USB to let the mirroring cast run wirelessly.

[Figure 54]

Notice:
(1). Currently, Phone OS should be Android 4.4 or up for using the EasyConnection app.
(2). Use the specified USB interface for connection. Bluetooth is also connected so that phone's audio can be Synchronized.
(3). ATOTO S8 requires the user to use the factory/original USB Cable that comes with the phone for using the EasyConnection feature. Non-manufacturer made USB cable may easily cause connection issues, such as unstable phone connection, or mirroring display is intermittently interrupted.
(4). When you mirror from your phone to ATOTO S8 via WiFi hotspot, there is no extra data used by your internet connection. Only what is running on your smartphone may consume mobile data.

7.2.2.3. For USB Tethering network via USB EasyConnection connection, please refer to chapter 8.1.1.

7.2.3 Setup of EasyConnection for iPhone
7.2.3.1.USB Connection.
Step 1: Search EasyConnection-CarbitLink app(see Figure 55) from the iPhone App Store and install it on your iPhone. The permissions or requests popping up on your iPhone are needed to be allowed in the first time connection.
Note: Unlike ATOTO A6/S8 (Gen1), S8 (Gen2) requires iPhone users to install specific applications.
Step 2: Plug your iPhone to S8's specified USB interface using the original iPhone USB Cable, and click "Trust" to pop-up from the iPhone side (see Figure 56), then run the EasyConnection app on S8.

[Figure 55]

7.2.3.2.WiFi Connection. After steps in Chapter 7.2.3.1 are finished, open the phone's personal hotspot, connect S8 to this WiFi hotspot. Then open the iPhone's screen mirroring, find this device (see Figure 57), and you will be able to use EasyConnection on S8 wirelessly.
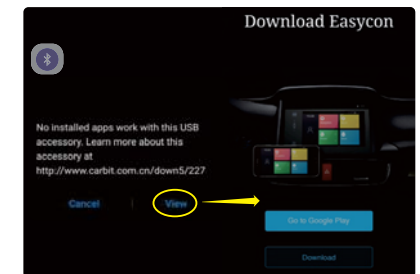
[Figure 56]

[Figure 57]

The latest operation steps for iPhone may be changed because of continuous iOS upgrade. You can visit https://support.myatoto.com for more information.

7.2.3.3. For USB Tethering network via USB EasyConnection connection, please refer to chapter 8.1.1.

7.2.4. Continuous software update of EasyConnection app
Most phone brands may release new system firmware for current phone owners, and new version system firmware may cause the EasyConnection app to work improperly. If you encounter a connecting issue after the smartphone is updated, follow the steps below:
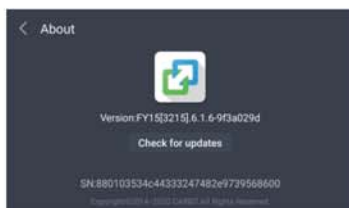**7.2.4.1.** Update the EasyConnection app on your smartphone using Google Play Store.

[Figure 58]

7.2.4.2. Click <Check for updates option> (Figure 59) to see if new version of EasyConnection for S8 is available. You need to ensure S8 is connected to the internet before doing this. If you still have a problem using the EasyConnection feature, please contact ATOTO Customer Support (support@myatoto.com) for help.

[Figure59]

7.3 Select as the default USB connection:

[Figure60]

Path: System>Device>Default USB Connection.
Once the EasyConnection is selected, it will start and run automatically on the S8 when you connect your phone to the S8 through a USB cable.

NOTICE: Since the S8 has a USB tethering function based on an EasyConnection connection, once your phone connects to the S8 via EasyConnection, the S8 can use your phone data for internet access.

Part	Specifications
Bluetooth	Bluetooth Version: Bluetooth 5.0
WiFi Network	Wi-Fi band: 2.4GHz.
GPS	Supports GPS/QZSS/SBAS (WAAS/MSAS/EGNOS/GAGAN)
Output & input	USB Data interface: 2~3 USB interfaces, varying from model to model;Power output: 5V, 500-800mA during data transfer
	USB Quick Charge interface: Power charging protocol integrated: DCP, QC2.0,QC3.0,MTK,PE1.1,PE2.0,FCP,SCP, AFC,SFCP. Output Voltage Range: 3V to 12V, automatically adjusted according to the fast charge protocol f the phone; Power Output: Max 24W (4V@3.6A, 5V@3.4A, 9V@2.5A, 12V@2)Intelligent over-current, over-voltage, under-voltage, short-circuit protection. *Only available on selected S8 models.

Part		Specifications
Output & input	Audio Out	4 x RCA Out (2V/10kΩ): Labeled as <FL>/<RL>/<RL>/<RR>
		1 x RCA Subwoofer Out(1V/10kΩ): Labeled as <SUB>
	AUX Audio Input	2 x Audio Input (Left / Right) (Max 1V/25kΩ) : Labeled as <LIN>/<RIN>
	AUX Video Input	1 x Video Input (1Vp-p/75Ω) : Labled as <VIN>
	FCAM video input	1 x Video Input (1Vp-p/75Ω) : Labeled as <Front Camera In>
	Rear View Camera Input	1 x Video Input (1Vp-p/75Ω) : Labeled as <RCIN>
	Video Output	Not available. An extra ATOTO USB to HDMI/RCA video-out adapter (AC-AHV68 or AC-AHV48,not included) is required for connecting to headrest monitor.
	Optical Output	1 x SPDIF Digital Audio Optical output (TOSLINK), Labled as <SPDIF>; Only available on selected S8 Models
General	Operation Voltage: 12v DC car battery	
	Rated Current Consumption: 15A	
	Operation Temperature Range: -20℃ ~ +60℃	