Matter - At a Glance

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1. General information

This document gives an overview of Tridonic Matter devices and explains how to commission a Tridonic Matterready device with the Apple or Google ecosystems. Apple and Google are the two ecosystems that have already been tested with Tridonic Matter devices.

Important note:

The way Tridonic implements the matter standard follows the specifications of the <u>connectivity standards alliance</u>. There are different ecosystems available.

- When selecting an ecosystem, make sure with the owner of the ecosystem that all the functionalities are available and usable.
- Functionalities should be tested in advance.

What is Matter?

📩 matter

Matter is an open-source standard for connecting smart devices.

When using Matter, smart devices, mobile apps and cloud services are able to communicate and work together. This way, interoperability between ecosystems and smart devices manufacturers is enabled. As an open-source, Matter can be freely used by any company.

What is Thread?

Thread is an IPv6-based, low-power mesh networking technology for Internet of things (IoT) products. It eliminates the need for dedicating hubs/gateways. The resulting wireless mesh network consumes little power and enables direct access to the Internet and the cloud from any device. The maximum number of connected devices is 250.

What do you need to use Matter?

In general, it is really easy to build up a Matter system. In the following diagram, you will find the minimum required components to be able to do this:



1. Border router: This device has the purpose of facilitating communication for Internet Protocol (IP) packets and technologies such as Wi-Fi or Ethernet into and out of a Thread network. Border routers that are used to create the infrastructure of a Thread network are also known as the ecosystem of a Matter system. Some available ecosystems provided by different brands are Apple TV 4K, Google Nest Hub (2nd Gen), SmartThings Hub, and so on.

2. Matter-ready linear luminaire: This luminaire contains a Matter-ready constant voltage driver that connects through the Thread network and communicates with the border router. This way, it can be controlled through the smartphone app and via voice commands.

3. Matter-ready ceiling luminaire: This luminaire contains a dimmable DALI-2 driver connected to a Wireless Matter module so this luminaire can also communicate via Thread.

4. Wireless passive module: It is also possible to connect push buttons to Matter using this device.

5. Standalone Matter luminaire: As shown in the infographics, this can also be useful for standalone luminaire applications. Containing the same devices as the ones described in point 2 to 4 above

2. Commissioning using Apple ecosystem

Components needed for Matter with Apple:

- 1. Router
- 2. Border router: Apple TV 4K
- 3. iPhone iPad with iOS 16.x
- 4. Matter-ready devices

Step by step

- 1. Make sure your router is connected and the network is strong and stable
- 2. Make sure your mobile is connected to the right network
- 3. Configure your account on your Apple TV 4K
- 4. Add a new room by clicking on "AirPlay and HomeKit" and follow instructions from Apple TV:

	Settings	
	General	
	Users and Accounts	
	Video and Audio	
é+1/	Notifications	
	AirPlay and HomeKit	>
	Remotes and Devices	
	Accessibility	
	Apps	
	Network	
	System	
	Sleep Now	

5. Go to iOS Home app and add the new room:



6. Turn on luminaire(s) and click on "Add Accessory":



7. Scan the QR code and add luminaire:



8. Wait until the light is connected:



9. Now you can control luminaires, create groups, scenes, send voice commands, etc.:



Pushbutton functionality

 \rightarrow During the commissioning of the module, you will also see a message about the pushbutton functionality with the symbol \Box

This will be automatically added to the same room as shown in the following figure:



1. Click on the box with the symbol \Box

 \rightarrow A new window "Standing Luminaire" will open.

Here you have the different configurations that are available for pushbuttons "BUTTON 1":



- 2. To set an action in the desired pushbutton, click on "Add".
- \rightarrow A new window will show up. 3. To add a dimming level, on/off action, select the box that shows the bulb symbol **Q**.
- 4. Click on "Next".

	< Hon	Standing Luminaire	×
Home		Select scenes and accessories for this action.	
	Cancel	Button 1 - Single Press	
	Scenes		
	🕂 Arrive H	lome	
	living room		
	🔤 Living c	office	
	<mark>-</mark> Standin	ıg Luminaire	
living room		Convert To Shortcut	
		Model Wireless module pa	

 \rightarrow Another window will appear:

	B Standing Luminaire	
Home	Cancel When living room Standing Luminaire Single Press Done	
		140.040
	When	
	living room Standing Luminaire Single Press	
	Add or Remove Accessories and Scenes	
Rooms	Accessories	
	LIVING ROOM	
	Standing Luminaire	
	Test This Action	
	Single Press Add	

- 5. Click on the white box with the bulb symbol.
 → The dimming bar will appear.
 6. Slide your finger up/down to select the desired dimming level.
 7. Click on the "X".
 8. Click on "Done".

100 % Brightness	× minaire		
	inaire Sing	gle Press	Done
	ingle Press		

You can also set scenes.

9. To do so, go back to step 2 and select "Suggested Scenes":



→ One more window will appear. Here you will be able to personalize the selected scene. 10. Click on "Done":

		Scenes	
Home	Cancel	New Scene	Done
	Arrive H	lome	
	This Accessor	У	
	LIVING ROOM		
	Standing	Luminaire	
	70 %		
	Test This Scene	e	
	Add or Remove	Accessories	
	Add to Home V	liew	
	Tiles hidden from F	Home View will still appear in the Room View.	

11. Repeat step 3 and onwards but selecting the desired scene "Arrive Home" this time:

	Home Standing Luminaire	
Home	Select scenes and accessories for this action.	
	Cancel Button 1 - Single Press	
	Scenes	
	Arrive Home	
	living room	
	w Living office	
	Standing Luminaire	
living room	Convert To Shortcut	
	Model Wireless module pa	

 \rightarrow You will see that the "Action" showing this time corresponds to the selected "Scene". 12. Click on "Done":

	Standing Luminaire	
Home	Cancel When living room Standing Luminaire Single Press	Done
	When	
	kiving room Standing Luminaire Single Press	
	Add or Remove Accessories and Scenes	
	Scenes	
L living room	These scenes will be set.	
	Test This Action	
	Turn Off	Never

 \rightarrow In the starting menu you will be able to see that the already configured "BUTTONS" show the selected type of action on the box: "Arrive Home" and "Standing Luminaire". The available "BUTTONS" will still show the "Add" option:

Home	Standing Luminaire There are 2 unconfigured buttons.	
	When I Leave Home, Turn Off living room Standing Luminaire	
	Suggested Scenes	3 >
Categories		
	BUTTON 1	
	Arrive Home	
Rooms	BUTTON 1	for the second s
living room	Single Press Standing Luminaire	>
	BUTTON 1	
	Single Press	Add
	BUTTON 1	
	Single Press	Add

3. Commissioning with Google ecosystem

Components needed for Matter with Android:

- 1. Router
- 2. Border router: Google Nest 2nd Gen
- 3. Smartphone Android Oreo (8.1, API level 27) or newer
- 4. Matter-ready devices

Step by step

- 1. Make sure your router is connected and the network is strong and stable
- 2. Make sure your mobile is connected to the right network
- 3. Configure your Google Home app and set up your Google Nest hub by adding a new device
- 4. Follow Google Home instructions and create a new room
- 5. Connect your Matter-ready device:

Go to the Google Home app and select "+" > "Set up a device" > "New device" > "Choose a home"

Tridonic Set up Set up Set up Set up a new device or add an existing device or service. Set up a new device or add an existing device or service. Set up a new device or add an existing device or service. Set up a new device or add an existing device or service. Set up a new device or add an existing device or service. Set up a new device or add an existing device or service. Set up a new device or add an existing device or service. Set up a new device or add an existing device or service. Set up a new device or add an existing device or service. Set up a new device or add an existing device or service. Set up a new device or add an existing device or service. Set up a new device or add an existing device. Set up a new device or add an existing device or service. Set up a new device or add an existing device or service. Set up a new device or add an existing device or service. Set up a new device or add an existing device or service. Set up a new device or add an existing device or service. Set up a new device or add an existing devices or service. Set up a new device or add an other home Set up a new device or add an other or up up add an other home Set up a new device or add an existing devices or services. such a connected light bulbs or plus.
Image: Note of the settings Image: Note of the settings of the settings of the set of the settings of the setti
Image: Set up a new device or add an existing device or services, your home You will be able to control the devices and services in this home Image: Set up a new device or add an existing device or services, your home You will be able to control the devices and services in this home Image: Set up a new device or add an existing device or services, such a connected light bulbs or plugs. You will be able to control the devices and services in this home Image: Set up a new device or add an existing device or aspect or display, the anater neabled smart home device or a patter device, including these labelled 'Seamless' Set up with the Google Home spp'. Tidonic Image: Set up an ew device or aspect or display, the or display is the or display is the or of your existing devices or services, such a connected light bulbs or plugs. Tidonic
General New device Add a Chromecars, Google Nest spaker or display, Nest Wift, a matter coubled smart home device or a partner device, including those labelled 'Seamless Setup with the Google Home app'. Tridonic Farbergasse 15, 6851 Dombirn, Austria Living Orffer display II Rooms and groups Works with Google Link one of your existing devices or services, such a connected light bulbs or plugs. IV
Nest Wift, a matter-enabled smart home davice or a partner device, including those labeled 'Scamless Setup with the Google Home app'. Nest Wift, a matter-enabled smart home davice or a partner device, including those labeled 'Scamless Setup with the Google Home app'. Add another home Morks with Google Privacy Privacy Public preview Add another home
Living Office Ill Rooms and groups display O Privacy CP Link one of your existing devices or services, such a connected light bulbs or plugs.
connected light bulbs or plugs.
Features
S Digital Wellbeing
Google Assistant
🞧 🧥 Nest Aware
Services
Video
J Music Next

 \rightarrow The app will start looking for new devices:



- \rightarrow The message "Matter-enabled device found" will show up.
- 6. Click on "Continue":



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- \rightarrow A window "Scan Matter QR code" will show up.
- 7. Scan Matter QR code:



 \rightarrow Once the code has been scanned, it will show up as connected:



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8. Now you can control your Matter-ready luminaire(s), send voice commands, etc.:

Important note:

The way Tridonic implements the matter standard follows the specifications of the <u>connectivity standards alliance</u>. There are different ecosystems available.

- When selecting an ecosystem, make sure with the owner of the ecosystem that all the functionalities are available and usable.
- Functionalities should be tested in advance.

Important note:

At the moment the pushbutton functionality is not supported by Google ecosystem.