



QuickSpot®

Walter Devkit - Walter + Antennae + SIM + Support
Datasheet



1 General information

The Walter Development Kit provides everything you need to get started with multi-radio IoT product development. It includes the Walter module with all required peripherals and a Soracom SIM card for immediate connection to cellular LPWAN networks. To help you accelerate your design, the kit also includes 30 minutes of one-on-one support with a DPTechnics engineer.

2 Features

The Walter module, inside the devkit, is based on an ESP32-S3-WROOM-1-N16R2 module with an on-board Sequans GM02SP modem. This combination makes Walter a unique development board that offers a rich feature-set which include but is not limited to:

- CPU: Xtensa Dual-core 32-bit LX7 CPU (ESP32-S3 SoC)
- RAM: 2MB (Quad SPI) PSRAM
- Flash: 16MB (Quad SPI) Flash memory
- WiFi: 150Mbps(n) 802.11 WiFi b/g/n with on-board antenna
- LTE: CAT M1/NB1/NB2 (GM02SP module)
- GPS: GPS, GNSS Constellation support (GM02SP module)
- Bluetooth: 2Mbps Bluetooth 5 (LE), Bluetooth Mesh
- 24 physical GPIO pins
- Ultra low deep sleep current of 9.8 μ A
- Open source software support for ESP-IDF, Arduino, Micropython and Toit
- Certified for CE, FCC, IC, UKCA, New-Zealand and Australia
- Solderless integration into any project due to the 2.54mm pin headers

3 Electrical characteristics

For the most reliable use and stability of the Walter module in the kit we advice to use the typical ratings. We do not guarantee the correct functioning of the Walter module outside the minimum and maximum range of the Walter module.

Parameter	Units	Minimum rating	Typical rating	Maximum rating
DC Supply Voltage	V	3.0	5.0	5.5
Digital I/O Voltage	V	2.64	3.3	3.6
Power consumption @3.3V	A	–	–	1.5
3.3V output current	A	–	–	0.25
Deep sleep current	μ A	–	9.8	–

4 Kit contents

Figure 1 shows the content of the Walter development kit:

- The Walter module (DPTechnics P000000100)
- A Taoglas LTE antenna (Taoglas FXUB63.07.0150C)
- A Taoglas passive GNSS antenna (Taoglas FXP611.07.0092C)
- An USB-A to USB-C cable
- An USB-C to USB-C cable
- A global 250Mb/1year Soracom IoT SIM card



Figure 1: Contents of the Walter development kit

5 Operating conditions

The Walter module in the kit can operate in a wide range of temperatures and conditions. The following are guidelines in which the module is guaranteed to work correctly.

Parameter	Units	Minimum rating	Typical rating	Maxium rating
Working temperature	°C	-40		85
Storage temperature	°C	-40		100
Humidity	%RH	10		90
Storage humidity	%RH	5		90

Please note that no condensation may occur on the PCB and components.

6 How to make use of the professional support

Each Walter Development Kit includes 30 minutes of one-on-one engineering support with an embedded firmware engineer specialized in IoT development. This personal session is an opportunity to discuss your project, ask technical questions, or receive guidance on integrating the Walter module into your own design.

To schedule your support session, please send an email to info@dptechnics.com and include the serial number of your development kit. You will then receive a link to book a video meeting at a convenient time.

7 Orderable part numbers

Part number	Description	HS	JPHTS	ECCN
P000000101	Walter devkit	851762	851762090	5A992.C

8 Legal information

This kit is manufactured by DPTechnics bv. We are not responsible for any product this kit is used in. This datasheet is made with great care for detail but it can be possible the datasheet will be updated with more accurate data in the future. Users of DPTechnics bv products can contact us by letter, telephone or email.

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