

SIM Card requirements for the CK:680 Outdoor Kit



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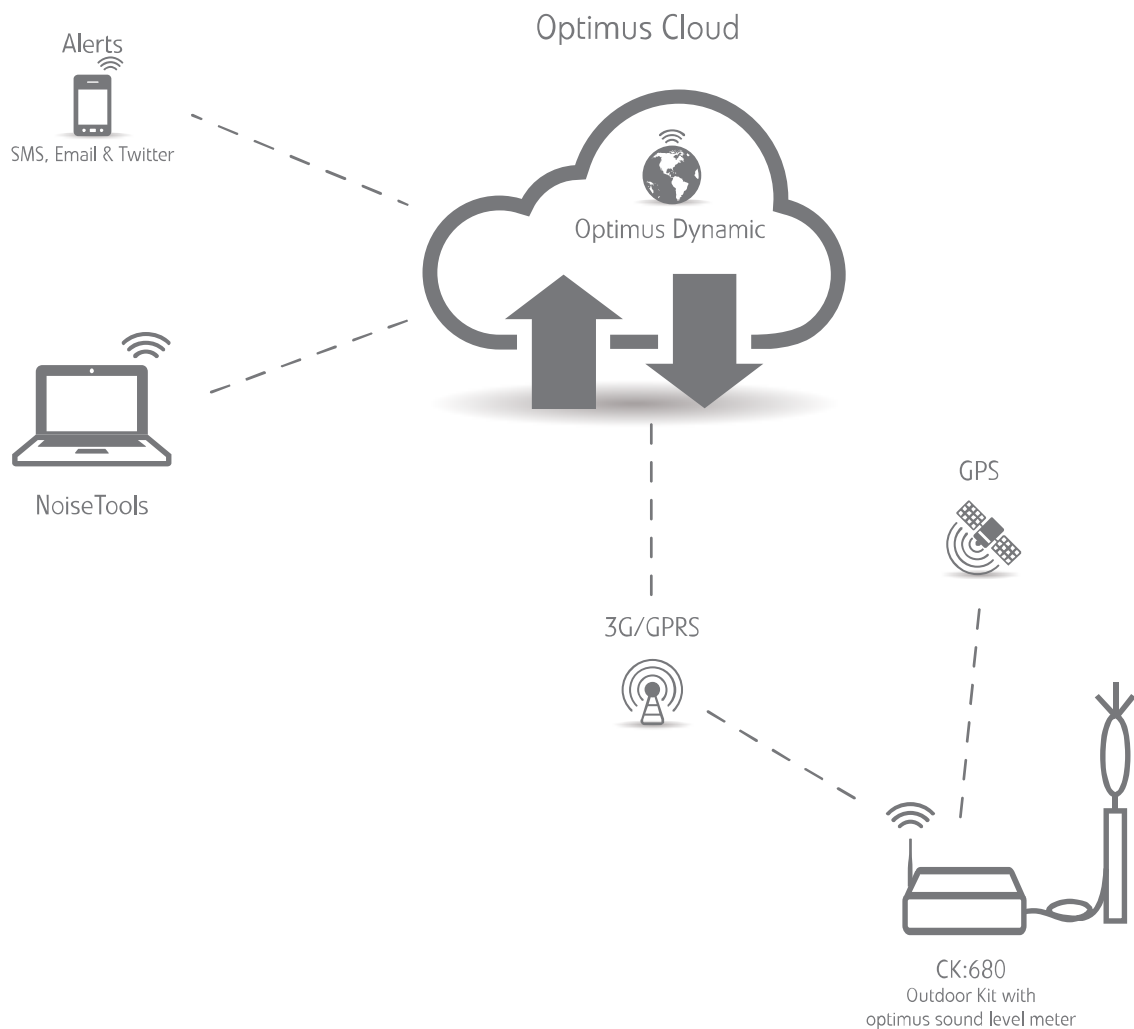
1 Introduction

The CK:680 Outdoor Noise Measurement Kit contains a modem that supports communication over a mobile phone (or cellular) network using packet data over a 3G/GPRS protocol.

This means that the NoiseTools software can communicate with the CK:680 over the internet rather than having to use a modem on the PC.

This removes the need for an additional modem and also the need for a telephone line to the PC. As long as there is an internet connection, NoiseTools will be able to communicate with the CK:680 as if it was connected directly to the PC.

The optimus can be configured and data downloaded directly in to the NoiseTools database.



2 Requirements for the SIM Card

The SIM Card used in the modem within the CK:680 must be configured to support the protocols used by the Optimus Dynamic web platform.

This requires that the SIM Card has the following:

- The APNs are preset
 - **NB THIS IS RECOMMENDED**
- The SIM cards have "real world" IP addresses (public IP addresses)
 - **NB THIS IS ESSENTIAL**
- The NAT IP-port pairs for the SIM are not dropped even during inactivity
 - NB This is **recommended** although not essential

If you are planning on using your own SIM card, you will need to discuss these requirements with your supplier and ensure that they are able to provide a suitable SIM and connection.

Cirrus Research plc can provide a SIM card from its supplier that has these capabilities preset.

Please contact our technical customer support department for more information.

2.1 Supported Data Rates

The modem supports the following data rates:

Data Rates for 3G (UC864-E)

HSDPA

Downlink up to 7.2Mbps

Uplink up to 384kbps

WCDMA

Downlink up to 384kps

Uplink up to 384kbps

EDGE

Downlink up to 236.8kbps

Uplink up to 236.8kbps

GPRS

Downlink up to 85.6kbps

Uplink up to 85.6kbps

3 Sourcing a suitable SIM Card

Unfortunately, most major cellular networks do not provide suitable SIM cards direct to end users.

It is usually difficult to get a SIM card with a public IP address or “real world” IP address as this is not required for most traditional mobile phone communications.

It is most likely that you will need to contact a specialist M2M (machine to machine) provider who can configure a SIM card with the correct settings.

In the UK, Cirrus recommends SIM cards from Eseye Limited.

Eseye are a specialist M2M supplier and their contact details are as follows:

enquiries@eseye.com

Eseye Limited
8 Frederick Sanger Road
Surrey Research Park
Guildford, GU2 7YD
Phone: +44 1483 685200
Website: www.eseye.com

Eseye refer to a “real world” IP address and they can provide SIM cards that are correctly configured for use with the CK:680.

4 References

Technical Note 28 - Recording Audio with the optimus green (CR:170) sound level meters

Technical Note 44 - Configuring an optimus green sound level meter for use with a CK:680 Outdoor Kit

5 Cirrus Research Offices

The addresses given below are the Cirrus Research plc offices. Cirrus Research plc also have approved distributors and agents in many countries worldwide. For details of your local representative, please contact Cirrus Research plc at the address below. Contact details for Cirrus Research authorised distributors and agents are also available from the Internet Web site at the address shown below.

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