

Requirements for embedded-SIM (eSIM)

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Introduction

An embedded-SIM (eSIM) or embedded universal integrated circuit card (eUICC) is a form of programmable SIM card that is embedded directly into a device. The surface mount format provides the same electrical interface as the full size, 2FF, and 3FF SIM cards, but is soldered to a circuit board as part of the manufacturing process. In machine to machine (M2M) applications where there is no requirement to change the SIM card, this avoids the requirement for a connector, improving reliability and security. An eSIM can be provisioned remotely; end-users can add or remove operators without the need to physically swap a SIM from the device.

In order to use eSIM with Teltonika Networks devices, some basic requirements must be met.

eSIM Dimensions

Must match standard MFF2 eSIM size:



eSIM Pin-Out

There are two default eSIM pin-outs:



The only difference in pin-outs is the IO pin – 2 or 3. Both versions of pin-outs are suitable for devices with eSIM.

Requirements for eSIM packing reel:

13" in diameter.