

sysmo NITB 3.5G starter kit limited edition



Your entry point to 3.5G

For many years the sysmoNITB (aka Network in the Box) has been known as a versatile solution to setup GSM/GPRS networks quickly and efficiently. Now, sysmocom introduces the sysmoNITB 3.5G: the next step in Free and Open Source mobile network technology.

The sysmoNITB 3.5G paired with a supported hNodeB enables a wide range of applications, including:

- IoT Testing for 3G based solutions
- 3.5G related research and development
- Production testing of 3G/3.5G terminal equipment
- Rapidly deployable 3.5G networks
- Private 3.5G networks (PBX style use)
- In-building coverage/capacity extension
- Remote area 3.5G deployments, utilizing any IP-based satellite back-haul service

The sysmoNITB paired with an hNodeB runs a completely autonomous small 3G network. All core network elements like hNodeBGW, MSC/VLR and HLR are part of the NITB.

Limited edition starter kit for product evaluation

For a limited time and as long as stocks last, we are offering the **sysmoNITB 3.5G starter kit limited edition**. The starter kit enables you to quickly get started and run a **completely autonomous 3.5G network** without the need for any additional external components.

The starter kit is the ideal entry point for your first steps in setup and operation of mobile networks. Due to its pre-configuration and the complete delivery you can

start with a working network. You can concentrate on your application much faster than setting up everything from scratch.

All you need to do in order to make calls, send SMS between your phones and use data services in this private 3.5G network is to:

- unpack the starter kit
- connect the power supplies
- connect the sysmoNITB 3.5G with the hNodeB and (if desired) the internet gateway
- insert the SIM cards into your telephones (phones not included!)
- power on the phones

The starter kit includes

- one sysmoNITB 3.5G
- one nano3G femtocell (hNodeB)
- **20** pre-provisioned SIM cards (10 3FF, 10 4FF)
- Printed copy of the **sysmoNITB 3.5G** Getting Started Guide
- Fully installed + configured **OsmoNITB 3.5G** software image
- Customer-specific factory configuration from a questionnaire – by order
- 4 hours of remote support by sysmocom staff (e-mail based, remote login/configure)

Custom-tailored mobile network solutions

sysmocom is not just another RAN vendor with a fixed product portfolio. All our products are based on Free and Open Source Software (FOSS) components, permitting customization both by sysmocom as well as the customer.

Access to the source code is key in enabling our customers to create products and services outside the constraints of existing, standardized protocols, interfaces and procedures. Any aspect of our products can be modified according to customer needs.

This gives our customers security in investment and in solution maintenance.

If you are looking for solutions in the world of mobile networks, get in touch with us. Based on a vast amount of existing code and know-how we are likely to help you fast, efficiently and comprehensively.

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Mechanical / Electrical specification sysmoNITB 3.5G

Dimensions of enclosure (W x H x D)	168 x 28 x 160 mm (excluding power supply)
Weight	450 g (excluding power supply)
Iuh Interface	RJ45 Ethernet (1000-Base-Tx)
External Interface	RJ45 Ethernet (1000-Base-Tx)
Management Interface	RJ45 Ethernet (1000-Base-Tx), DB-9 RS-232
CPU / SoC	1 GHz dual-core 64bit AMD G series T40E
Input Voltage	12V DC, maximum 12W
Cooling	Passive. Active cooling optionally available depending on customer-specific enclosure or environmental requirements
Internal Memory	2 GB RAM, 16 GB Flash (SSD)
Operational Temperature	0 to 50 °C

Mechanical / Electrical specification nano3G

Dimensions of (W x H x D)	168 x 160 x 30 mm (w/o stand)
Weight	275 g (excluding power supply)
Iuh Interface	RJ45 Ethernet (100-Base-Tx)
RF Output (internal Antenna)	<ul style="list-style-type: none">• UMTS Bands 2 and 5 (1900MHz / 850MHz)• Max. output power: 20mW
Simultaneous Users	8
Operational Temperature	0 to 40 °C
Input Voltage	9 V (DC), 8W
Cooling	Passive, no fan or other moving parts

Software / Logical specification

Configuration Interface	Command line based (CLI) introspection + configuration
Interface hNodeB ↔ HNB-GW	3GPP Iuh (RUA/HNBAP/RANAP)
Interface HNB-GW ↔ MSC + SGSN	Iu-CS and Iu-PS over SUA (SCCP/M3UA update coming soon)
Supported Services	SMS, Voice Calls and Packet Data (IPv4)
Authentication	UMTS AKA with USIM and GSM-SIM fall-back to 2G auth context
External SMS Interface	SMPP v3.4
External Voice Interface	MNCC, can be translated to SIP using osmo-sip-connector

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