

NIB for Educational Institutes



Learn by Experiencing

Mobile communication is reaching its peak in terms of number of connections across the globe, and number of bits transferred per MHz reaching almost to a level of Wi-Fi. With mobile communication becoming an integral part of our lives, educational institutes have introduced Mobile Communication or Wireless Communication as a subject in the curriculum.

OMOCO FOR INNOVATION

Omoco can simulate a complete mobile network in lab environment so students gain a first-hand, practical learning experience. Universities can utilize Omoco technology to test any network-reliant ICT project under development. Use Omoco as a tool for education, research projects for verification of any new service and application over cellular network.

Omoco's network-in-a-box (NIB) is a complete wireless network packed into one box. It offers the following network node functionality, covering all important nodes in GSM/GPRS network architecture.

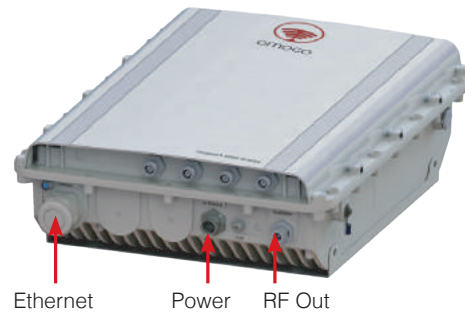
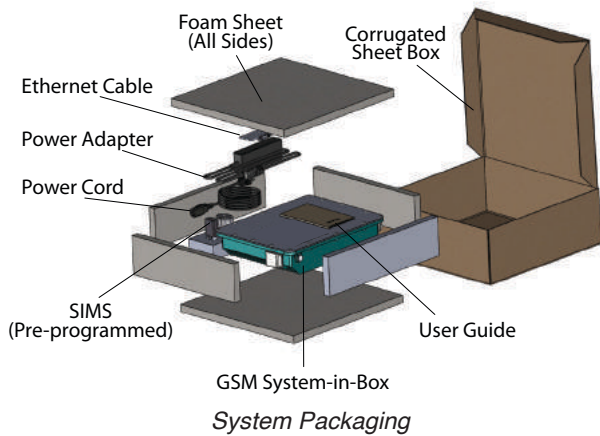
- BTS
- BSC
- MSC
- HLR
- SMSC
- xGSN
- SCF
- PCU

Omoco's single box offers radio and core network nodes functions, giving a sense of a complete, end-to-end GSM network.

SALIENT FEATURES

1. **Quick and Simple Installation:** Install and operate in less than an hour
 2. **Logging Tools:** Detailed message flows on each interface and layer
 3. **Build your own services:** Open APIs to build your own SMS or USSD-based services. For example, integrate with your alarm system or the attendance tracking system.
 4. **Develop and Test Applications:** Use the setup to test multiple application scenarios that need complete mobile network in a lab environment. For example, Machine-to-Machine (M2M) application scenarios.
 5. **Multiple Interconnection:** Connect it with any VoIP server over standard SIP/RTP, with GSM as last-mile.
- **Standard compliant:** Omoco NIB is fully 3GPP compliant – from all the network elements, collapsed interfaces to log messages.





Compact GSM System - 1 TRX

PACKAGE INCLUDES

ITEM	QUANTITY
NIB Hardware	1
Phones	2
SIMS	2
Ethernet Cable	1
Power Cable & Adaptor	2

SPECIFICATIONS

FREQUENCY BANDS	850/900/1800/1900
Technology	GSM, GPRS, EDGE
Interfaces (Out)	Ethernet and RF
RF Output Power	100mW (+20dBm)
Number of simultaneous call	7
O&M	CLI, GUI

SERVICES

LOCATION UPDATE
Mobile Originated Voice Call
Mobile Terminated Voice Call
Mobile Originated SMS
Mobile Terminated SMS
Routing Area Update
Mobile Originated PDP Context

ABOUT OMOCO

Omoco develops Deploy-it-yourself Micro Telecom Network solution, suitable for individuals, enterprises and communities who want to build their own wireless communication network.

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