Ksenia®
security innovation

gemino IoT
comunicator 4G-LTE/IP

code KSI4104000.310
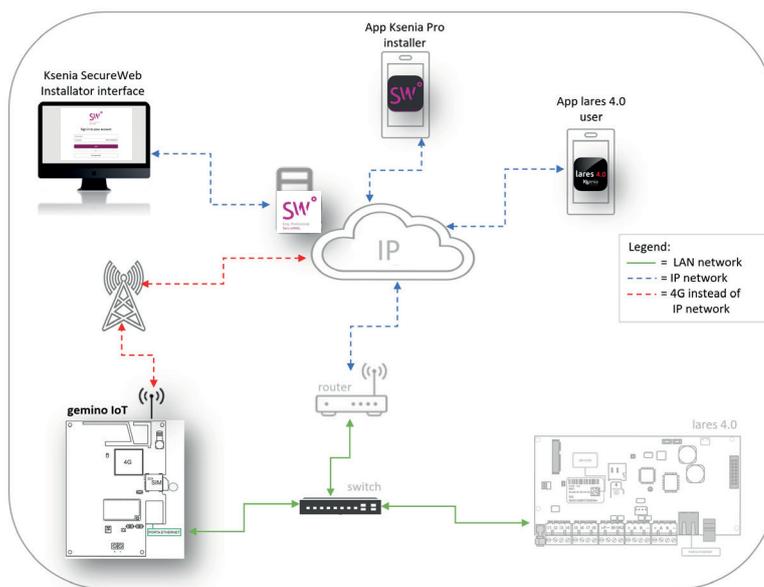
Description and main features

gemino IoT is an IP Communicator that increases the communication capabilities of the lares 4.0 IoT platform on two transmission channels: Ethernet/IP (with proprietary protocol) and 4G data network (with reception also on 2G/GPRS bands). gemino IoT allows lares 4.0 IoT platforms, installed on sites that do not have sufficient GSM coverage, to be reachable from 4G data network or via Internet, in a completely transparent way for the installer and end-user as well. Also it provides a high-speed data channel (up to 10Mbit/s in download) able to offer a complete back-up of communication network in the event of failure or temporary lack of coverage, from the 4G network to the IP-LAN network and vice versa, ensuring a total communications and data security.

Main features in the following:
- programming and management of the lares 4.0 IoT platform;
- push notifications when events occur;
- sending of signals with SIA DC09 digital protocol, with channel and receiver supervision (dual-path)
- video-verification of IP cameras connected to the local network where lares 4.0 resides;
- easy management and fast synchronization of voice messaging (TTS Loquendo® di Nuance Communication®);
- supervision and the sending of voice and SMS reports when any of the events programmed occur;
- remote control of the system through vocal menu-driven;
- power supply PoE 13W or 12 VDC.

why gemino IoT

- **because** it supports 4G-LTE connectivity, fourth generation network for data transmission on a high-speed mobile network, up to 10Mbit/s in download. 4G-LTE technology improves performance and communications and provides great advantage in reliability of connections and high speed.

- **because** you are allowed to choose the most suitable position to install gemino IoT, for the best reception of the mobile network signal. As gemino IoT is connected to lares 4.0 router platform via Ethernet and powered by PoE, it is not constrained by the position occupied by the central unit but aimed to guarantee best coverage.

- **because** it is provided in an extremely compact (140x102x30mm) case, it also implements the internal antenna on board, that make it a modern technological and design product.

- **because** it communicates through the IP network: on one side toward lares 4.0 platform, which guarantees adequate speed for data traffic and for communications offered by the services provided, and on the other side it ensures 4G-LTE network redundancy, for a complete back-up of communications, in case of failure or temporary lack of coverage (switching from 4G network to IP network and vice versa).

- **because** it represents the natural technological evolution of the Add-on module 3G transitioning to 4G-LTE network, maintaining the same functionalities: remote configuration of the control panel through Ksenia PRO application or from Ksenia SecureWeb service, remote management by end-users with lares 4.0 application, sending of messages using the SIA DC09 protocol, notifications via SMS, e-mail, voice messages and Push notifications.

HOW TO ORDER
- KSI4104000.310 - PCBA
INCLUDED PARTS
- 1 communcator gemino IoT (PCBA)
- 1 'Slim' plastic box
- 1 Installation Manual
ACCESSORIES
- KSI4800005.300 - External 4G antenna Kit with wall-mounting bracket, connectors and 10 m cable.

COMPLIANCE
- Europe - CE, RoHS

Architecture

gemino IoT offers a complete back-up of communications, switching from 4G network to IP network and vice-versa. Possibility to configure just one porta 4.0 each lares 4.0 control panel.

Technical data

Power supply	PoE 13W or12 VDC
Current consumption	PoE class 3 (12.95W)
GSM band	GSM 4G Module Ublox
Maximum data rate	10 Mbit/s in download, 5 Mbit/s in upload
Maximum transmission time of vocal alarm	10 sec.
Alarm transmission system	SP2 - SP4 - DP3
Operating temperature	-10 +55°C
Humidity	95%
External antenna connector type	SMA
PCBA dimensions	92x113x20 mm (hxlxd)
Maximum overall dimensions	140x102x30 mm (hxlxd)
Weight	190 gr.