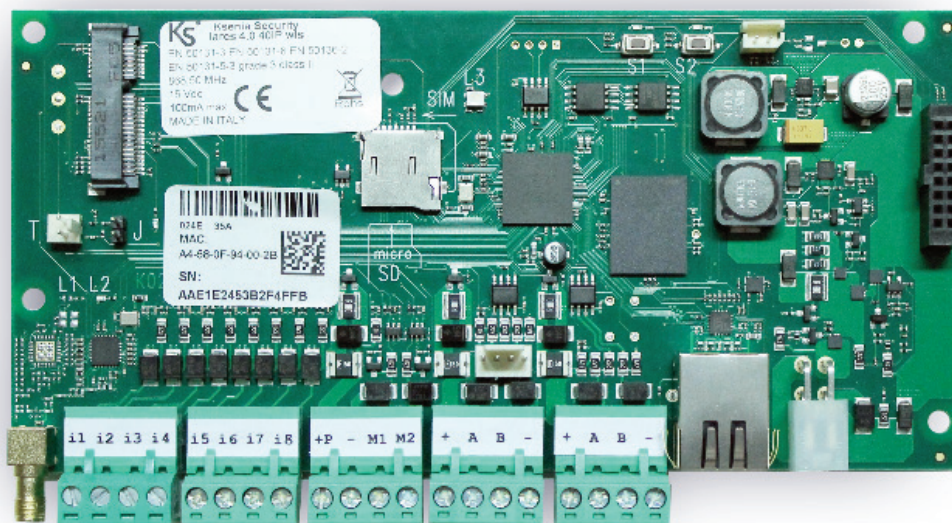# lares 4.0

HYBRID IoT CONROL PANEL FOR SECURITY AND HOME AUTOMATION
KSI1400016.300 - KSI1400040.300- KSI1410040.300 - KSI1410140.300 – KSI1410644.300

lares 4.0 wls 96

IoT CONROL PANEL FOR SECURITY AND HOME AUTOMATION
KSI1410096.301 - KSI1413096.301- KSI1410096.311 - KSI1413096.311

KSenia
security innovation

Ksenia
security innovation

INDUSTRY 4.0 : mobile revolution

lares 4.0

THE MOST INNOVATIVE IoT SOLUTION FOR SECURITY AND HOME & BUILDING AUTOMATION

www.kseniasecurity.com

The new lares 4.0 represent by far the most advanced and reliable Solution in the Digital Revolution (IoT) for what concern
both the Security (Intrusion, Video-surveillance, Access Control) and the Home & Building Automation.

They can manage a number of outputs equal to the number of inputs (sensors) in order to manage lights, clima, irrigation, Automatic Doors and Windows, in short any type of Automation or Appliances: on top of all Security aspects mentioned before, even the SMART HOME or SMART BUILDING Features can be now managed by a single User APP (lares 4.0) and programmed from the Installer now even from any mobile terminal (APP named Ksenia Pro).

Regardless from its dimension, the Control Panel Mother Board is having a native Ethernet Port as well as the on board Wireless Transceiver (868 MHz Bi-directional) compatible with all existing wireless Ksenia's Peripherals; The Control Panels are also equipped with a Double BUS and detachable Connectors.
All Mother Boards are designed to take directly onboard (with no need of having a Communication Bus so as to enhance the transit speed of all Data) both the 3G Module (and soon the 4G-LTE) and, where required, the PSTN Module. In any case is guaranteed the transmission of Voice Messages, email, Contact ID and SIA DC-09 Level III Protocol to the CMS (Central Monitoring Stations).

The Installer APP enables also the Centralization and Geo-localization of all Panels installed and therefore to offer the outmost in terms of Maintenance & Service by means of Push Notifications even for tech. Alerts (valid for all IoT Panels: lares 4.0 and lares wls).

The lares 4.0 Platform has been developed and manufactured with unprecedented characteristics of power, calculation speed and capacity of memory calculation (even compared to the traditional lares, already superior to many competitors) as specified in the table below:

	lares	lares wls	lares 4.0
Flash memory (spazio codice)	512 KB	2 MB	4 MB
RAM	96 KB	512 KB	512 KB
CPU Clock	80 MHz	120 MHz	240 MHz
Drystone MIPS (Mln. Instr. per sec.)	132	240	480
NAND data memory	8 MB	16 MB	32 MB
NOR data memory (eMMC)	-	4 GB	4 GB
SD card slot	no	sì	sì

DATASHEET

lares 4.0 MAIN FEATURES						
	lares 4.0 wls 96	lares 4.0 - 16	lares 4.0 - 40	lares 4.0 - 40 wls	lares 4.0 - 140 wls	lares 4.0 - 644 wls
Zone Management						
Number of zones (of which radio)	4+32*3	16	40 (40)	40 (40)	140 (64)	644 (64)
Number of customized balancing	1	2	4	4	14	64
Output Management						
Number of outputs (of which radio)	2oc + 16 wls	16 (16)	40　(40)	40　(40)	140　(128)	644　(128)
Virtual Output (timer software)	●	●	●	●	●	●
Motherboard						
1. Programmable inputs/outputs	2	2	2	2	2	2
2. Inputs	4	8	8	8	8	8
on board 868MHz radio interface	-	-	-	●	●	●
on board BUS	1	1	1	2	2	2
Siren Connector on board	●	-	-	-	-	-
Software						
Number of partitions	5	6	12	12	20	30
Number of arming modes	8	8	32	32	64	128
#Hashtag number	2	2	12	12	20	64
Rooms number	8	12	24	48	64	128
Timer of time scheduler	4	8	64	64	64	128
Number of stored events	1.500	1.500	1.500	5.000	10.000	10.000
Number of manageable users	16	16	64	128	512	1024
Number of programmable scenarios	8	8	32	32	128	512
Number of events groupings to which associate the scenarios	32	32	64	64	256	1024
Number of IP cameras	4	4	12	12	20	30
Thermostat	1	-	8	8	24	40
BUS management						
User Interfaces (ergo keyboards, ergo S, ergo M, volo, volo-in)	3	6	24	24	40	64
Expansion Module (auxi, auxi relè, auxi 10in, auxi-L, auxi-H)	0	4	24	24	64	250
Expansion Module auxi-H	-	-	●	●	●	●
opis/divide	0	4	12	12	20	64
duo BUS (64 peripherals)	0	2	2	2 *	2 *	2 *
Sirens (indoor and outdoor)	1	6	24	24	40	64
domus moduls	1	-	8	8	32	64
Wireless						
Wireless sensor (poli, nanus, unum, velum, nebula)	32	16	40	40	64	64
imago wireless Siren	3	3	3	3	5	5
opera Remote control	16	16	64	64	64	64
duo repeater	2	2	2	2	2	2
auxi wireless I / O	8	8	20	20	64	64
Manage Notifications						
Number of Contact lists	8	8	8	8	16	32
Number of Contacts for each list	8	8	8	8	8	8
Number of events grouping to which associate a list of Contacts	16	16	32	32	64	128
Sia-IP Couples of receivers	1	3	3	3	3	3
Contact-ID Couples of receivers	1	3	3	3	3	3
Hardware						
Power supply voltage			15 Vdc ± 1% - 50 W			
Central Power Consumption (max)			100mA			
Temperature range			5 °C / + 40 °C 23 °F / 131 °F			
Degree of protection IP			IP34			

* If the Motherboard is already having the wls "onboard", n.1 "duo BUS" can be added.

Ksenia
SecureWeb

lares 4.0

Ksenia
5
YEARS
WARRANTY

ADD-ON
3G - UMTS/HSPA

PULSANTI DI RESET DATI DI FABBRICA

(A)

ETICHETTA
QR-CODE

ADD-ON
PSTN

TAMPER
SWITCH

624W 16A
MAC:
A4-68-0F-90-04-00
SN:
5E82C56BFFD56DBA

micro
SD

868 MHz
ANTENNA

i1 i2 i3 i4   i5 i6 i7 i8   +P − M1M2   + A B −   + A B −

PORTA ETHERNET

KS-BUS
1

KS-BUS
2

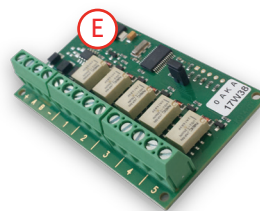(B)

(C)

(D)

(E)

(F)
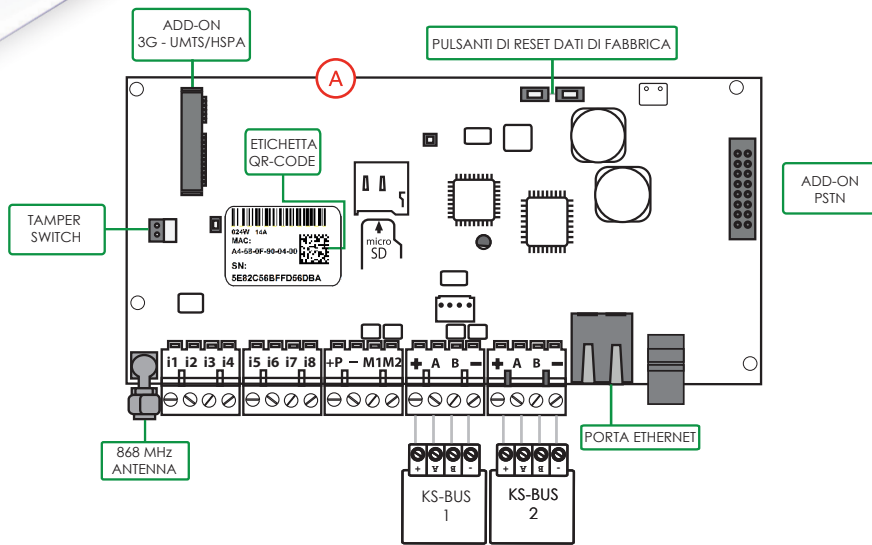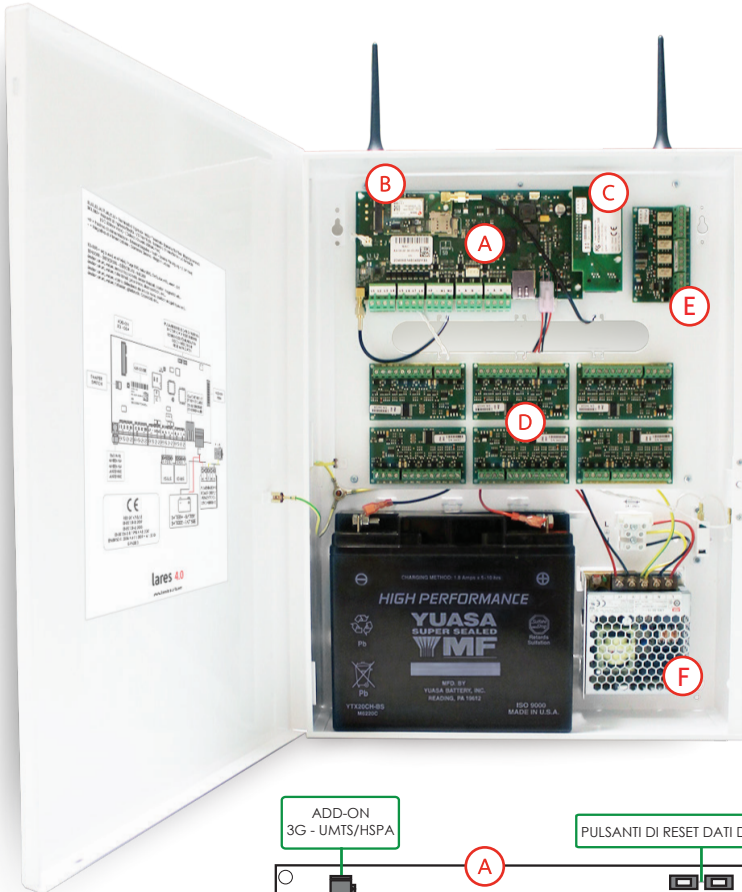
3G Module micro SIM.
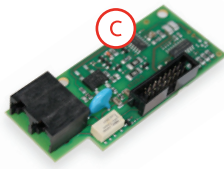
PSTN Module.
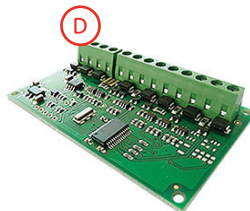
auxi expansion module
with 5 input/output
programmable.

auxi relè expansion module
with 5 ralay output
programmable

Switching Power Supply
15 Vdc - 50 W

APP lares 4.0

Thanks to this new App the USER EXPERIENCE is really fantastic: very direct and easy to use, a comprehensive Home or Building Surveillance.

A single APP in fact allows to monitor all Security Aspects (Intrusion, VideoSorveillance, Access Control) and simultaneously to manage Home Automation or BMS (Building Management System).

'MAXIMUM FREEDOM and CREATIVITY': for the first time the User himself, without asking to his Installer, can not only choose but even set-up the domotic scenario he wants and manages it even from remote in the way he likes. Similarly the User can determine which kind of Push Notification he wishes to receive on his smartphones or tablet.

ENVIROMENTAL RESPECT

lares 4.0 series has been designed and realized with the following characteristics to reduce its envirommental care:
- **Halogen free laminates and lead-free PCBA**
- **Low consumption**
- **Packaging realized mainly with recycled fibers and materials**

we care