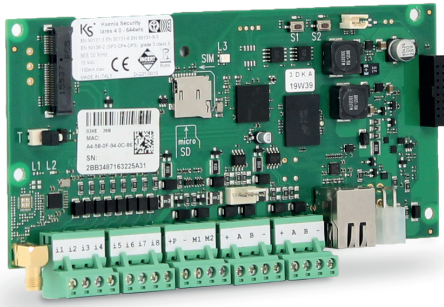


Hybrid IoT Control Panels for Security and Home & Building Automation



lares 4.0 - 644wls*

lares 4.0 versions and characteristics

Ksenia pro and lares 4.0 APPs included

KS11400016.300 - lares 4.0 - 16

up to 16 IN + 16 OUT with 6 partitions - native with Ethernet interface.

KS11400040.300 - lares 4.0 - 40

up to 40 IN + 40 OUT with 12 partitions - native with Ethernet interface.

KS11410040.300 - lares 4.0 - 40wls

up to 40 IN + 40 OUT with 12 partitions native with Ethernet interface and 868 MHz bidirectional wireless (DPMS technology - Dynamic Power Management System) and double BUS on board.

KS11410140.300 - lares 4.0 - 140wls

up to 140 IN + 140 OUT with 20 partitions native with Ethernet interface and 868 MHz bidirectional wireless (DPMS technology - Dynamic Power Management System) and double BUS on board.

KS11410644.300 - lares 4.0 - 644wls*

up to 644 IN + 644 OUT with 30 partitions (and beyond on specific project): native with Ethernet interface and 868 MHz bidirectional wireless (DPMS technology - Dynamic Power Management System) and double BUS on board.

**lares 4.0 - 644wls: for projects with a number of zones and/or outputs higher than the 644 already available, it is possible to study a custom solution.*

lares 4.0 - 644wls/140wls/40wls/40/16

CERTIFICATIONS IMQ



EN 50131-1:2006 + A1:2009 + A2:2017 + A3:2020
 EN 50131-3:2009, EN 50131-6:2017, EN 50131-10:2014,
 EN 50131-5-3:2017,
 EN 50136-1:2012 + A1:2018, EN 50136-2:2013
 EN 62368-1:2020 + A11:2020
 Grade 3 - Class II

CERTIFICATIONS SBSC



SSF 1014 Larmklass 3

CERTIFICATIONS INCERT

T031-2017 + A1:2018 + A2:2022



D-Q2T-0010

lares 4.0 - 644wls
 lares 4.0 - 140wls
 lares 4.0 - 40wls



D-Q2T-0011

lares 4.0 - 40
 lares 4.0 - 16

lares 4.0 description

lares 4.0 control panels are the ideal and the most advanced solution within the IoT technologies, both for Physical Security (Intrusion, Video Surveillance, Access Control) and Home & Building Automation.

All lares 4.0 are hybrid (wired and wireless) and have a number of outputs equal to the number of inputs for lights, HVAC, irrigation, shutter blinds and any other kind of automation or household appliance. The control panel can be managed by the end-user through an App called lares 4.0 and can be programmed by the Installer via any mobile terminal, thanks to the Ksenia Pro App.

Ksenia PRO App allows you to centralize and geo-locate all the installed control panels and offer the best assistance to the end-user by receiving push notifications, even technological alerts; by implementing a web server inside the motherboard, no PC programs are required, remote configuration takes place via web (locally or via the Ksenia SecureWeb cloud).

Regardless of the model of lares 4.0, the motherboard is designed with an Ethernet interface, 8 input terminals and 2 terminals that can be configured as inputs or outputs. The control panel is available in two versions: with one BUS (compatible, except for some exceptions, with all existing Ksenia BUS devices) or double BUS and 868MHz bi-directional wireless transceiver (compatible with all existing Ksenia wireless devices). The motherboard is also designed with a Micro SD Slot for create and restore backup local configuration and for upgrade the system, a connector for 4G/LTE module and a connector for PSTN module. It is possible to configure and send voice messages, emails, sms, push notifications, Contact ID and SIA DC-09 level III protocol to the Surveillance Centers.

lares 4.0 control panel is designed to optimally take the strictest installation and management conditions and for the most "sensitive" applications.

The motherboard can be installed inside our metal boxes. Together with the motherboard you can install inside up to 7 expansion modules, a 18Ah backup battery and a 50W switching power supply.



App Ksenia Pro
Installer



App lares 4.0
User

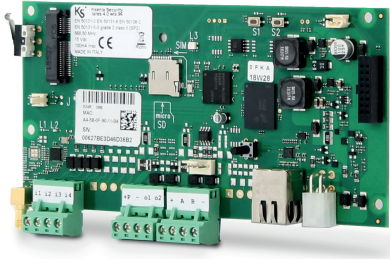


5 years warranty

Performances and capacities

lares 4.0 allows you to manage up to 5 simultaneous HTTPs connections with loading times of a few seconds, storing hundreds of screenshots from the supported IP cameras, doing the backup of local programming on SD-card, etc.

- Flash memory (space code):	4 MB
- RAM:	512 KB
- CPU Clock:	240 MHz
- Drystone MIPS (Mln. Instr. per sec.):	480
- NOR data memory:	32 MB
- NAND data memory (eMMC):	4 GB
- SD card slot:	yes

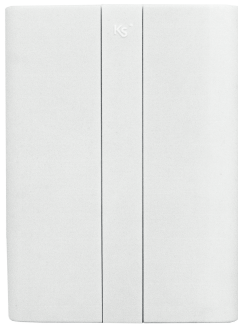


lares 4.0 wls 96

KS1410096.300 - lares 4.0 wls 96

It is able to manage up to 96 zones, of which 40 wired and 18 outputs. It can be expandable with an KS-BUS: up to 3 user interfaces (to be chosen among ergo keypad, volo and volo-in proximity readers), 1 BUS siren (imago or radius), 1 domus to manage the functions of the chronothermostat, 6 expansion modules (a choice among auxi, auxi-1 and auxi-H), 2 among opis and divide. IP peripherals management (ergo-T, gemino IoT, porta 4.0, cameras). Complete with siren and wls antenna. Only for installation on plastic cabinet KS17305015.011.

KS17305015.011 - White plastic cabinet with front opening and screw closure. Supplied with fuse holder, 50W power supply and tamper. It can contain an indoor siren, 4G/LTE and wls antenna, 2 expansion modules and 12V-7Ah lead battery. Dimensions: 215x288x84.5 mm



lares 4.0 wls 96

CERTIFICATIONS IMQ



EN 50131-1:2006 + A1:2009 + A2:2017 + A3:2020,
EN 50131-3:2009, EN 50131-6:2017,
EN 50131-10:2014, EN 50131-5-3:2017,
EN 50136-1:2012 + A1:2018, EN 50136-2:2013
EN 62368-1:2020 + A11:2020
Grade 2 - Class II

CERTIFICATIONS SBSC



SSF 1014 Larmklass R

CERTIFICATIONS INCERT

T031-2017 + A1:2018 + A2:2022



lares 4.0 - 96wls

D-Q2T-0012

lares 4.0 wls 96 description

lares 4.0 wls 96 is the wireless version of lares 4.0 family, to which a minimum wire expandability has been added. It is able to manage up to 96 zones (40 wired max) and 18 outputs (16 wireless max), 5 partitions, 4 IP inputs (extended number is available under license).



App Ksenia Pro
Installer



App lares 4.0
User



5 years warranty

Technical characteristics of lares 4.0 control panels, including lares 4.0 WLS 96, described in the next table.

Technical characteristics

Metal box characteristics	KS17402117.010 (switching power supply 25W)	KS17305015.011 (switch. power supply 50W)	KS17403130.010 (switch. power supply 50W)	KS17404130.010 (switching power supply 50W)		
Dimensions (wxhxd)	255x295x85mm	215x288x84.5 mm	325x400x90 mm	325x440x90 mm		
Backup batteries	7Ah			18Ah		
Max. battery recharge time to 80%	10h			24h		
Power supply voltage	230 V~ -15/+10% 50 Hz 0.4A	230 V~ -15/+10% 50 Hz 0.8A				
Power Supply Battery Charger (Type A norm EN50131-6)	15V ± 1% 1.7A	15V ± 1% 3.4A				
Maximum current available for external devices and optional modules	580 mA grade 2 230 mA grade 3	1500 mA grade 2 600 mA grade 3				
lares 4.0 control panel	wls 96	16	40	40wls	140wls	644wls
Current consumption (med./stand-by)	50mA	40mA	40mA	60mA	60mA	60mA
Current consumption (max.)	80mA	70mA	70mA	100mA	100mA	100mA
Max. output voltage ripple	120 mV					
Max. current for battery charging	800 mA					
Deep discharge voltage protection	10 V					
Low battery threshold (restore)	<11 V (13 V)					
Low voltage threshold	12 V Voltage below which the power supply output fault is signalled 15.4 V Voltage above which the power supply output fault is signalled					
Maximum number of inputs	96	16	40	140	644	
Built-in inputs (fixed + programmable)	4	8	8	8	8	
Maximum number of outputs	18	16	40	140	644	
Ethernet connectivity management	YES					
Power supply fault detection	YES					
Over voltage protection	YES (17 V)					
Combinations of Digital Key	More than 4 billions					
Alarm transmission system	SP2, DP1, SP4, DP3					
Time for generation and transmission of alarm messages	3 sec.					
Time for detection and presentation failures	10 sec.					
Protection class	IP30					
Security grade	2	3				
Environmental class	II					

lares 4.0 performances

	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+
Zones management						
Number of Zones (of wich radio)	96 (96)	16 (16)	40 (40)	40 (40)	140 (140)	644 (192)
Number of wired Zones	40	16	40	40	140	644
Support for IP Zones	●	●	●	●	●	●
Custom EOL Balances	1	2	4	4	14	22
Analog inputs range	1	2	4	4	14	22
Number of Outputs (of which radio)	18 (16)	16 (16)	40 (40)	40 (40)	140 (128)	644 (128)
Virtual Outputs (timer)	●	●	●	●	●	●
On board features						
I/O terminal	2 (Out only)	2	2	2	2	2
Inputs	4	8	8	8	8	8
868MHz radio interface	●	-	-	●	●	●
BUS interface	1	1	1	2	2	2
Indoor Siren Connector	●	-	-	-	-	-
Partitions	5	6	12	12	20	30
Arming Modes	8	8	32	32	64	128
Hashtags	2	2	12	12	20	64
Rooms (graphic maps)	8	12	24	48	64	128
Schedulers	4	8	64	64	64	104
Event log	1500	1500	1500	5000	10000	10000
Users profiles	2	2	12	12	20	64
Number of users	16	16	64	128	512	1024
Programmable Logics	32	8	16	24	40	108
Chrono-thermostats	1	0	8	8	24	40
Counters	4	1	12	12	20	30
Meters (energia)	2	0	3	6	12	18
Scenarios and Notification						
Scenarios	8	8	32	32	128	399
Configurable Event groups	32	32	64	64	256	756
Contact Lists	8	8	8	8	16	32
Contact ID receivers (pairs)	1	1	3	3	3	3
SIA receivers (pairs)	1	1	3	3	3	3
Configurable Notification groups	16	16	32	32	64	121
IP Expandability						
IP Cameras	4 (8****)	4 (8****)	12 (20****)	12 (20****)	20 (30****)	30(63****)
ergo-T/ergo-T pro	1	2	4	4	8	14
IP Video intercom	1	1	1	1	1	1
gemino IoT	1	1	1	1	1	1
porta 4.0/porta IoT	1	1	1	1	1	1
IP Supervisors (Control 4 and Crestron integration)	1	1	1	1	1	1
BUS Expandability						
User interfaces (ergo; ergo-S/M; ergo-X, volo; volo-in)	3	6	24	24	40	64
I/O modules (auxi-1;auxi; auxi 10; auxi-R; auxi-H; auxi-L, auxi-A)	6*	4**	24	24	64	200
Sirens (radius, imago,vox)	1	6	24	24	40	49
Isolators (divide, opis)	2	4	12	12	20	32
Transceivers (duo)	0	2	2	1 (2****)	1 (2****)	1 (2****)
Home automation sensors (domus)	1	0	8	8	32	64
Load controllers (energia)	1	0	1	3	6	6
BUS sensors (matrix BUS, unum-X BUS)	8	8	40	40	64	64
Access control (intro)	4	4	8	8	12 (20****)	16 (30****)
Wireless Expandability						
Sensors (micro poli, poli, nanus, unum-X, nebula, velum, matrix)	32	16	40	40	64	64
I/O module (auxi wls)	8	8	20	20	64	64
Sirens (imago wls)	3	3	3	3	5	5
Repeaters (duo)	2	2	2	2	2	2
Keypads (ergo wls)	4	2	3	3	4	4
Remote controls (opera)	16	16	64	64	64	64

* Supports only auxi, auxi-1, auxi-A and auxi-H - ** Does not support auxi-H - *** Second BUS receivers can be used disabling Transceiver on board
 **** Extended number is available under license, contact our sales team for information

