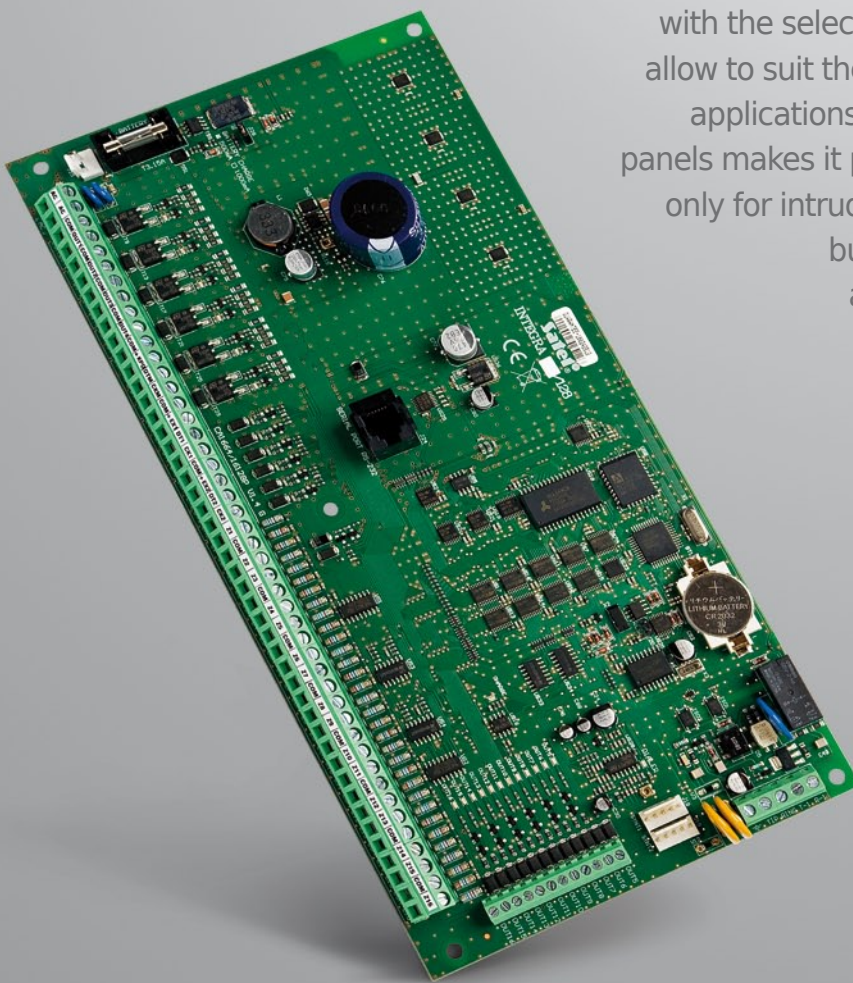


INTEGRA

INTEGRA panels are the most powerful and advanced intruder alarm control panels manufactured by SATEL. The family includes five control panels of unified hardware/software architecture that differ from each other with size and expansion possibilities. Unique scalability combined with the selection of core components allow to suit the needs of most security applications. The versatility of these panels makes it possible to use them not only for intruder and hold-up systems, but also for access control and building automation.



INTEGRA RANGE OF INTRUDER CONTROL PANELS

Advanced devices, such as the INTEGRA family control panels, in addition to their primary function – to detect and inform about the entry of an intruder, can in a much broader sense ensure the safety and security of your household, and take care of the comfort of your everyday life through the implementation of home automation basics.

Security is also a very important factor for business. Professional applications require specific solutions – the overriding goal here is maximum security without compromise. The INTEGRA control panels set a new standard in this area. A number of solutions, both hardware and software ones, qualifies them for installations requiring the top class security – this is why they belong to the world's finest advanced control panels.

GUARDX



DLOADX

sirens



detectors



system operation and supervision



access control modules



expansion zones and outputs modules



communication modules



wireless bidirectional ABAX system

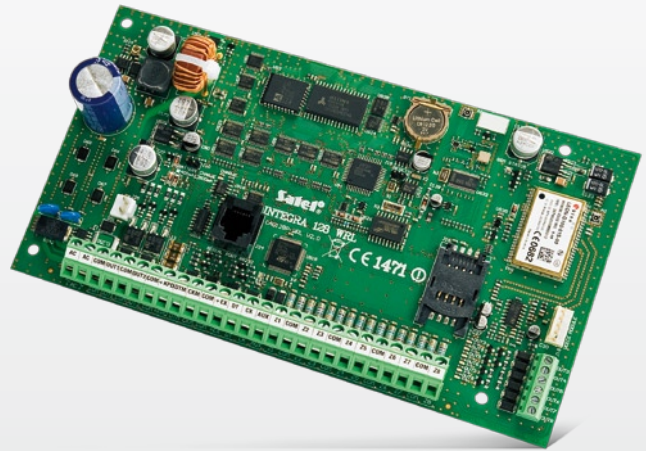


INTEGRA SYSTEM

- 4 up to 128 zones:
 - support for NC, NO, EOL, 2EOL/NC and 2EOL/NO loop configurations
 - flexible selection of zone function
 - detector diagnostic tools
- 4 up to 128 programmable outputs
- built-in 868 MHz bidirectional interconnect for detectors and output devices (**INTEGRA 128-WRL** only)
- 4 up to 32 partitions:
 - partitions controlled by users, timers, inputs or automatically related to other partitions
 - partition grouping into up to 8 objects
- expansion buses for easy installation of additional modules
- onboard RS-232 port for local upload/download, external modem support and event printing – RJ type socket
- on-board communicator with reporting, messaging, remote control and remote uploading/downloading features:
 - telephone dialer (except **INTEGRA 128-WRL**)
 - GSM/GPRS 900/1800/1900 communicator (**INTEGRA 128-WRL** only)
- system operation:
 - LCD keypads
 - partition keypads
 - remote controller key fobs
 - personal computer (local RS-232/modem connection/TCP/IP networks)
 - SMS (**INTEGRA 128-WRL** only)
 - Java enabled mobile phone
- FLASH based firmware for easy updates without disconnecting the wiring
- panel programming:
 - local (LCD keypad/PC connected by RS-232)
 - remote (modem connection/TCP/IP connection/Java enabled mobile phone)
- settings backup in FLASH memory
- system codes:
 - up to 8 master user codes (1 master user code per object)
 - 16 up to 240 user code
 - 1 service code
 - selection of user rights, additional definition of access rights
 - dynamic function menu depending on current user rights
- individual keypads/code locks/card readers assignment of users
- periodic code changing with prefix feature
- dual code access partitions
- name editing (user/zone/output/partition/object) for easy control and maintenance
- timers:
 - 16 up to 64 installer defined weekly system timers
 - user defined partition timers
- event log (899 up to 22527 entries)
- enhanced online/offline event log printing features
- access control:
 - door opening by the use of partition keypad, code lock, proximity card readers, Dallas iButton readers (dedicated relays, function does not reduce number of available programmable outputs)
 - door control input (does not reduce number of available panel's zones)
 - opening every door by the use of LCD keypad
- reporting:
 - ContactID, SIA and other formats
 - 4 monitoring station numbers (2+2 backup)
 - 9 identifiers
- messaging:
 - 4 to 16 telephone numbers
 - 16 to 32 voice messages (optional message reception DTMF confirmation)
 - 16 to 64 text messages
- incoming call answering:
 - partition state check
 - output control
- advanced telephone tone analysis (except **INTEGRA 128-WRL**):
 - TBR-21 compliant tone detection
 - intelligent redial attempts
 - programmable dialing sequence
- built-in 300 bps modem
- external modem support: PSTN, ISDN and GSM
- flexible output control by programmable logical operations
- auto-diagnostic features for all system components
- battery backed-up RTC with calendar
- on-board switching mode power supply
- optical indication of output state, battery charger and dialer operation
- electrical protection for all zones, outputs and buses



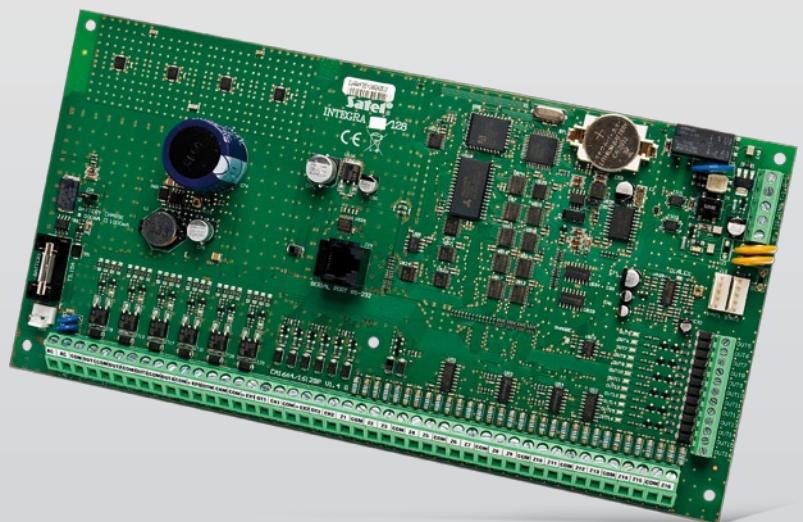
ALARM CONTROL PANELS INTEGRA



INTEGRA 128-WRL

Main board

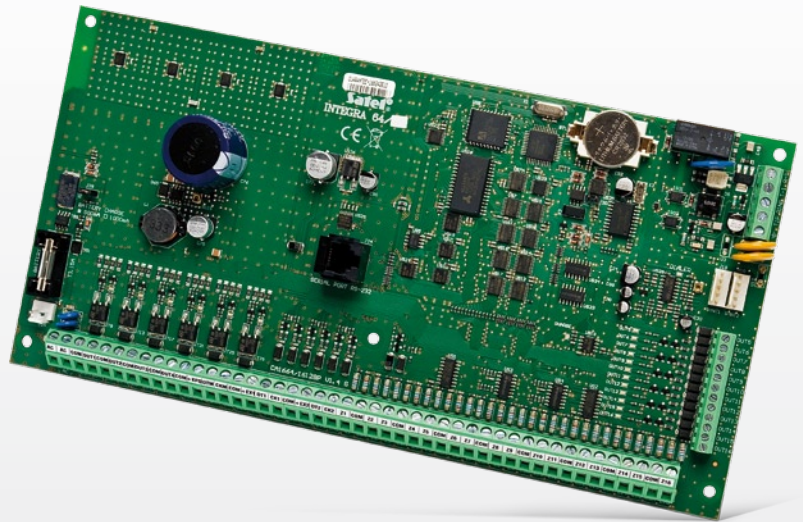
- up to 128 wireless and hardwired zones
- 32 partitions, 8 objects
- up to 128 programmable outputs
- keypads and expansion modules buses
- built-in bidirectional **ABAX** wireless interface
- built-in GSM/GPRS communicator with monitoring, voice and text messaging, and remote control features
- access control and home automation features
- system operation with LCD keypads, partition keypads, keyfobs and proximity cards or remotely with mobile phone or PC
- 64 independent timers for automatic control
- event log with 22527 entries and event printing feature
- 240+8+1 users
- flash firmware upgrade with a PC
- built-in 2 A switching mode backup power supply with battery charging and diagnostic features
- compatibility with **ABAX** and **INTEGRA** accessories and modules



INTEGRA 128

Main board

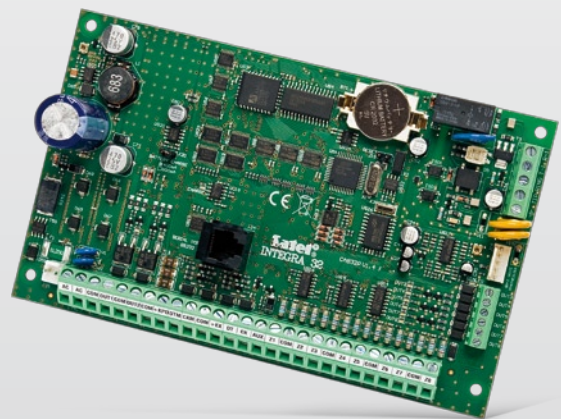
- up to 128 zones
- 32 partitions, 8 objects
- up to 128 programmable outputs
- keypads and expansion modules buses
- built-in telephone dialer with monitoring, voice messaging and remote control features
- access control and home automation features
- system operation with LCD keypads, partition keypads, keyfobs and proximity cards or remotely with mobile phone or PC
- 64 independent timers for automatic control
- event log with 22527 entries and event printing feature
- 240+8+1 users
- flash firmware upgrade with a PC
- built-in 3 A switching mode backup power supply with battery charging and diagnostic features



INTEGRA 64

Main board

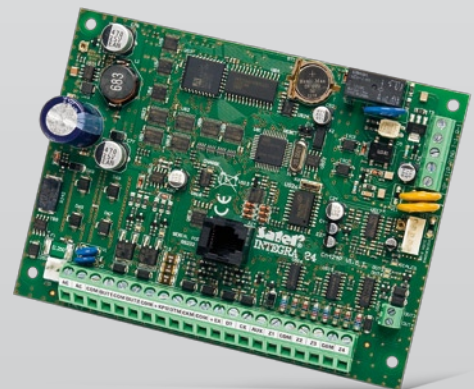
- up to 64 zones
- 32 partitions, 8 objects
- up to 64 programmable outputs
- keypads and expansion modules buses
- built-in telephone dialer with monitoring, voice messaging and remote control features
- access control and home automation features
- system operation with LCD keypads, partition keypads, keyfobs and proximity cards or remotely with mobile phone or PC
- 64 independent timers for automatic control
- event log with 6143 entries and event printing feature
- 192+8+1 users
- flash firmware upgrade with a PC
- built-in 3 A switching mode backup power supply with battery charging and diagnostic features



INTEGRA 32

Main board

- up to 32 zones
- 16 partitions, 4 objects
- up to 32 programmable outputs
- keypads and expansion modules buses
- built-in telephone dialer with monitoring, voice messaging and remote control features
- access control and home automation features
- system operation with LCD keypads, partition keypads, keyfobs and proximity cards or remotely with mobile phone or PC
- 32 independent timers for automatic control
- event log with 899 entries and event printing feature
- 64+4+1 users
- flash firmware upgrade with a PC
- built-in 1.2 A switching mode backup power supply with battery charging and diagnostic features



INTEGRA 24

Main board

- up to 24 zones
- 4 partitions
- up to 20 programmable outputs
- keypads and expansion modules buses
- built-in telephone dialer with monitoring, voice messaging and remote control features
- access control and home automation features
- system operation with LCD keypads, partition keypads, keyfobs and proximity cards or remotely with mobile phone or PC
- 16 independent timers for automatic control
- event log with 899 entries and event printing feature
- 16+1+1 users
- flash firmware upgrade with a PC
- built-in 1.2 A switching mode backup power supply with battery charging and diagnostic features

INTEGRA OPERATION, CONTROL AND MANAGEMENT

INT-KSG

Touch-sensor keypad

- large display with new user interface, able to deliver more information at once
- new display feature that provides customized information set on system status
- MACRO sequences for easy triggering of complex system operations
- backlit touch-sensor keypad
- individual LED and buzzer for key-press feedback
- dedicated FIRE, PANIC and AUX alarm keys
- 2 programmable zones with adjustable EOL value



INT-KSG-BSB / INT-KSG-SSW

INT-KLCD / INT-KLCDR / INT-KLCDS / INT-KLCDL / INT-KLCDK

LCD keypads

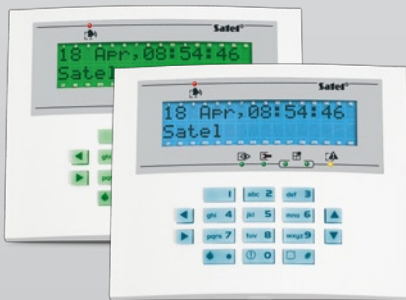
- keypad and display backlight
- LEDs for system state indication
- keypad hold-down PANIC, FIRE and AUX alarms
- buzzer for acoustic signaling
- two zones expansion
- panel communication loss indication
- RS-232 for supervision and management applications **GUARDX**
- proximity card reader for **INT-KLCDR-GR** and **INT-KLCDR-BL** keypads
- available with green backlight (**GR**) or blue backlight (**BL**)



INT-KLCD-GR / INT-KLCD-BL



INT-KLCDR-GR / INT-KLCDR-BL



INT-KLCDL-GR / INT-KLCDL-BL



INT-KLCDS-GR / INT-KLCDS-BL



INT-KLCDK-GR

INT-IT / INT-CRT

Proximity card arm/disarm devices

- partitions arming and disarming with proximity cards or tags
- support for 125 kHz passive transponders
- 3 programmable partition arm modes
- 3 LEDs for system state indication and user interface display
- built-in buzzer
- compatible with BTicino (Magic, Living Int, Living Light) and Gewiss (PlayBus, SYS) systems (**INT-IT**)



INT-IT-MA / INT-IT-LI / INT-IT-LH / INT-IT-PB / INT-IT-SY / INT-CR

INT-RX

433 MHz keyfobs receiver

- support for up to 248 keyfobs
- up to 6 installer programmable actions per keyfob
- operated by **P-2, P-4, T-1, T-2, T-4** keyfobs



INT-RX

P-2 / P-4 / T-1 / T-2 / T-4

Keyfobs 433 MHz

- KEELOQ® dynamic code-hopping technology
 - ideal for security demanding applications
 - high immunity to interference signals
- SAW Resonator frequency stabilization
- immunity to environmental changes
- powered by single 12 V 23A battery



P-2



P-4



T-1



T-2



T-4

INT-S-BL

Partition keypad

- controls single partition in the system
- keypad hold-down PANIC, FIRE and AUX alarms
- LEDs for partition state indication
- buzzer for acoustic signaling
- access control features
- relay for electromagnetic lock/electric strike
- door control input
- available with green backlight (**INT-S-GR**)



INT-SK-GR

Partition keypad

- controls single partition in the system
- keypad hold-down PANIC, FIRE and AUX alarms
- LEDs for partition state indication
- buzzer for acoustic signaling
- access control features
- relay for electromagnetic lock/electric strike
- door control input



INT-SCR-BL

Multi-function keypad with proximity card reader

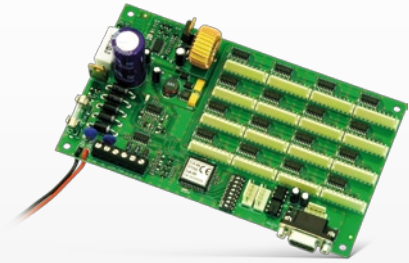
- partition keypad and entry keypad modes
- proximity card reader
- LEDs for partition state indication
- buzzer for acoustic signaling
- keypad backlight
- optical tamper for opening and removal from mounting surface
- relay for electromagnetic lock/electric strike
- door control input
- doorbell button
- outdoor operation



CA-64 PTSA

Synoptic board

- connecting of up to 128 LEDs for indicating zone/partition state of security system
- RS-232 for communication with **GUARDX** application
- onboard switching mode power supply



ZONES/OUTPUTS EXPANSION MODULES FOR INTEGRA CONTROL PANELS

CA-64 E

Zone expansion module

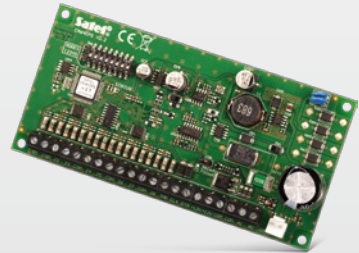
- system expansion with 8 zones
- support for NO, NC, EOL, 2EOL/NO, 2EOL/NC zone configurations
- programmable EOL resistance value
- pulse analysis with sensitivity setting for vibration and roller shutter sensors



CA-64 EPS

Zone expansion modules

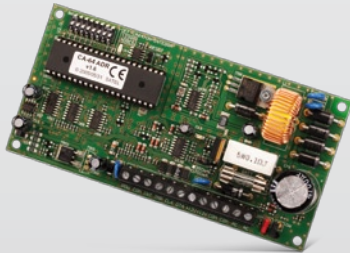
- system expansion with 8 zones
- support for NO, NC, EOL, 2EOL/NO, 2EOL/NC zone configurations
- programmable EOL resistance value
- pulse analysis with sensitivity setting for vibration and roller shutter sensors
- switching mode power supply



CA-64 ADR

Addressable bus expansion module

- dedicated independent bus for addressable detectors
- support for up to 48 addressable zones
- switching mode power supply



CA-64 ADR-MOD

Addressing module

- converts standard (NO, NC) detector into addressable detector
- installs inside detector enclosure
- compatible with **CA-64 ADR** addressable bus module



CA-64 OPS-OC

Output expansion module

- system expansion with 8 outputs:
 - 8 low current OC outputs
- switching mode power supply

CA-64 OPS-R

Output expansion module

- system expansion with 8 outputs:
 - 8 relay outputs
- switching mode power supply

CA-64 OPS-ROC

Output expansion module

- system expansion with 8 outputs:
 - 4 relay outputs
 - 4 low current OC outputs
- switching mode power supply



CA-64 O-OC

Output expansion module

- system expansion with 8 outputs:
 - 8 low current OC outputs

CA-64 O-R

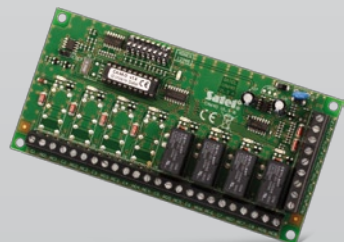
Output expansion module

- system expansion with 8 outputs:
 - 8 relay outputs

CA-64 O-ROC

Output expansion module

- system expansion with 8 outputs:
 - 4 relay outputs
 - 4 low current OC outputs



INT-ORS

DIN rail compatible outputs expansion module

- 8 relay outputs for direct control of 230 V mains powered appliances
- installation directly on 35 mm DIN rail



INT-IORS

DIN rail compatible zones and outputs expansion module

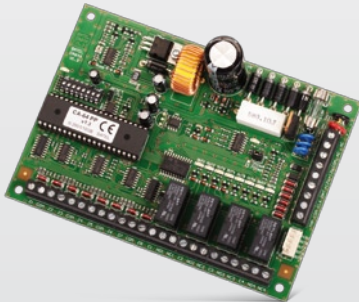
- 8 programmable zones
- 8 relay outputs for direct control of 230 V mains powered appliances
- installation directly on 35 mm DIN rail



CA-64 PP

Subpanel module

- system expansion with 8 zones
- system expansion with 8 outputs:
 - 4 relay outputs
 - 4 low current OC outputs
- switching mode power supply



ACU-100

Wireless system controller

- **ABAX** wireless components expansion



COMMUNICATION MODULES FOR INTEGRA SYSTEMS

GSM-4

GSM/GPRS telephone line backup module

- simulation of analog telephone line over GSM network
- primary network selection: GSM/PSTN
- automatic switching to secondary network in case of primary network failure
- 4 programmable inputs for triggering of messaging and/or GPRS reporting
- telephone line monitoring conversion to GPRS transmission, compatible with any panel
- 3 outputs with remote control via DTMF/SMS/CLIP
- PAGER (DTMF) messaging conversion to SMS
- support for CLIP test transmissions
- SMS reception for central monitoring station
- external modem functionality for **INTEGRA** panels
- RS-232 port for module programming and modem functionality



GSM LT-2

GSM/GPRS communication module

- simulation of analog telephone line over GSM network
- 4 programmable inputs for triggering of messaging and/or GPRS reporting
- telephone line monitoring conversion to GPRS transmission, compatible with any panel
- CallerID forwarding to simulated telephone line (DTMF and FSK systems)
- PAGER (DTMF) messaging conversion to SMS
- support for CLIP test transmissions
- SMS reception for central monitoring station
- external modem functionality for **INTEGRA** panels
- RS-232 port for module programming and modem functionality



GSM LT-1

GSM communication module

- simulation of analog telephone line over GSM network
- PAGER (DTMF) messaging conversion to SMS
- SMS reception for central monitoring station
- external modem functionality for **INTEGRA** panels
- RS-232 port for module programming and modem functionality



ETHM-1

TCP/IP communication module

- TCP/IP reporting
- **DLOADX** remote system programming



INT-VG

Remote interactive voice module

- customizable voice menu
- provides "text to speech" function
- remote arming/disarming and output control
- management of violation, zones and failures
- macro functions
- 16 voice messages can be assign to events



GPRS-T1

GPRS/SMS reporting transmitter

- telephone line monitoring conversion to GPRS/SMS transmission, compatible with any panel
- automatic fallback to SMS reporting in case of GPRS failure
- SMS personal messaging
- support for CLIP test transmissions
- pre-paid balance and time limit query function
- automatic module restart
- communication failure indication



CA-64 SM

Voice synthesizer module

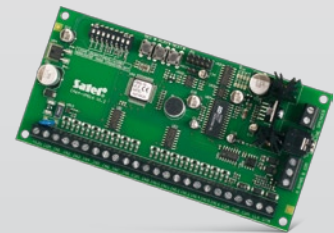
- up to 16 voice messages, 15 seconds each, to be used for telephone messaging of system events, e.g. alarms



VMG-16

Voice message player

- up to 16 voice messages for audible playback when specific events occur in the system



BUS CONVERTER FOR INTEGRA CONTROL PANELS

INT-FI

Fiber-optic interface

- **INTEGRA** keypad and expansion buses to fiber-optic conversion
- support for two fiber pairs allowing modules daisy-chaining
- communication range between transmitter and receiver up to 2 km
- high immunity to interference
- full galvanic isolation
- supported also by the **ACCO** (RS-485)



INT-RS

RS-232 interface for systems integration

- RS-232 interface installed on keypad bus
- **GUARDX** communication
- RS-232 based monitoring support
- open protocol for systems integration



ACCESS CONTROL MODULES FOR INTEGRA SYSTEMS

INT-SZ-BL

Code lock

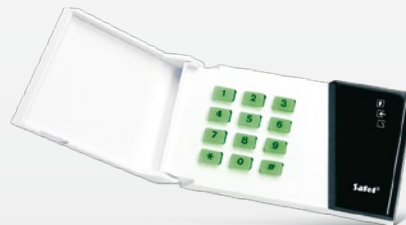
- LEDs for door state indication
- keypad hold-down PANIC, FIRE and AUX alarms
- buzzer for door left open indication
- relay for electromagnetic lock/electric strike
- door control input
- available also with green keypad backlight (**INT-SZ-GR**)



INT-SZK-GR

Code lock

- LEDs for door state indication
- keypad hold-down PANIC, FIRE and AUX alarms
- buzzer for door left open indication
- relay for electromagnetic lock/electric strike
- door control input



CA-64 SR

Proximity card reader controller

- relay for electromagnetic lock/electric strike
- door control input
- support for 1 or 2 **CZ-EMM** series proximity card readers
- arm/disarm by proximity card feature



CA-64 DR

DALLAS iButton reader controller

- relay for electromagnetic lock/electric strike
- door control input
- support for 1 or 2 **CZ-DALLAS** iButton readers
- arm/disarm by **DALLAS** iBUTTONS feature



CZ-EMM / CZ-EMM2

Proximity card reader

- installed directly on wall/door frame
- communication format: EM Marin
- support for 125 kHz proximity cards/tags
- optional **CZ-EMM-POD** spacer pad available (**CZ-EMM** only)

CZ-EMM3 / CZ-EMM4

Proximity card reader

- installed directly on wall/door frame
- communication format: EM Marin
- support for 125 kHz proximity cards/tags
- outdoor operation
- doorbell button (**CZ-EMM4** only)



CZ-EMM

CZ-EMM2

CZ-EMM3

CZ-EMM4

CZ-DALLAS

DALLAS iBUTTON reader

- installed directly on wall/door frame
- support for standard **DALLAS** iBUTTONS



PAS-DALLAS

KT-STD-1 / KT-STD-2

Proximity cards

- passive 125 kHz transponder
- standard credit card size, dimensions: 85 x 55 mm (**KT-STD-1**)
- standard credit card size, dimensions: 85 x 55 mm, 2 mm thick (**KT-STD-2**)
- colour: white



KT-STD-1

KT-STD-2

SOFTWARE FOR INTEGRA CONTROL PANELS

DLOADX

Upload/download software

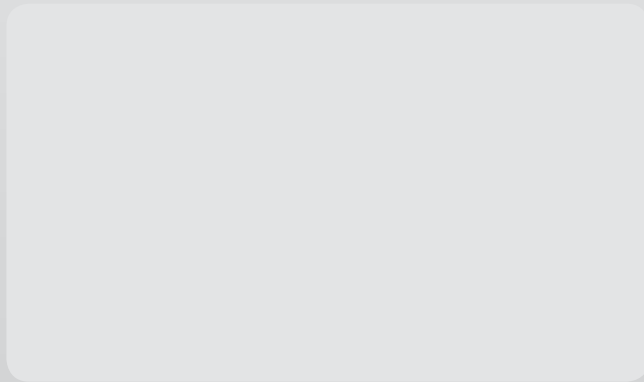
- operation in Windows 98/ME/2000/XP/Vista/7 environment
- intruder alarm system programming
- visualization tools for partitions, zones, outputs, troubles, supply
- voltages for modules, timers, tamper contacts and doors
- diagnostic tools for control panel and expansion modules
- event log reviewing
- system operation by on-screen virtual keypad
- control panel communication:
 - local via RS-232 port on the control panel main board
 - remote via TCP/IP networks (**ETHM-1** module required)
 - remote via telephone line, ISDN or GSM network



FLASHX

Firmware update utility

- easy firmware updating without disassemble of the equipment
- control panel communication: RS-232 port on control panel main board



GUARDX

System supervision and management utility

- operation in Windows 98/ME/2000/XP/Vista/7 environment
- visualization of protected facility on computer screen
- on-line information on emergency situations
- real-time event reviewing
- system operation by on-screen virtual keypad
- user management and administration
- control panel communication
 - local via keypad's RS-232 port
 - remote via TCP/IP networks (**ETHM-1** module required)
 - remote via telephone line, ISDN or GSM network



DB9F/RJ-SET

RS-232 cable

- set for programming control panels via PC



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