

INTEGRA

Satel®

50131 Grade 3 approved system

INTEGRA was designed to be more than just an intruder alarm control panel - it combines intrusion, automation and access control. EN50131 Grade 3 approvals and compliance with DD243:2004 allow to use it for high risk installations, while variety of expansion options makes it optimally suited to the size of protected facility.



INTEGRA 24 Main Board

- 4 zones, expandable up to 24
- 4 programmable outputs (2 high-current and 2 low-current), expandable up to 20
- 3 power supply outputs with automatic fuses
- keypad bus supporting up to 4 keypads
- expander bus supporting up to 32 modules
- 4 partitions
- 16 system timers
- 4 telephone numbers for messaging
- voice synthesizer support
- 16 voice messages
- 16 pager messages
- 16 user codes
- 899 events
- switching-mode power supply
 - load capacity: 1.7A
 - short-circuit protection
 - battery charging and diagnostic
 - battery deep discharge protection



INTEGRA 64 Main Board

- 16 zones, expandable up to 64
- 16 programmable outputs (4 high-current and 12 low-current), expandable up to 64
- 2 power supply outputs with electronic overload protection
- keypad bus supporting up to 8 keypads
- 2 expander buses supporting up to 64 modules
- 8 objects
- 32 partitions
- 64 system timers
- 16 telephone numbers for messaging
- support for 2 voice synthesizer modules
- 16 voice messages
- 64 pager messages
- 192 user codes
- 6143 events log
- switching-mode power supply
 - load capacity: 3A
 - short-circuit protection
 - battery charging and diagnostic
 - battery deep discharge protection

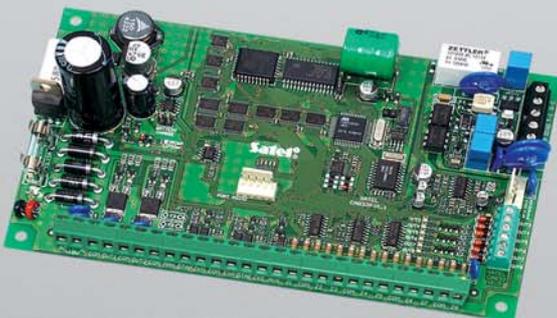
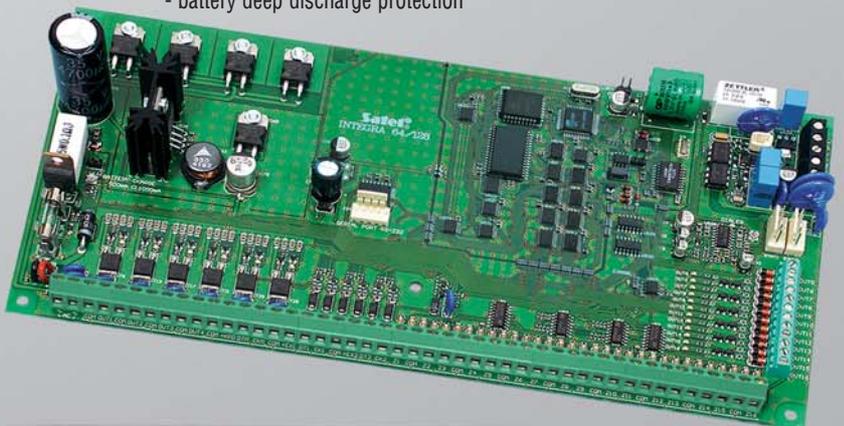


INTEGRA 32 Main Board

- 8 zones, expandable up to 32
- 8 programmable outputs (2 high-current and 6 low-current), expandable up to 32
- 3 power supply outputs with automatic fuses
- keypad bus supporting up to 4 keypads
- expander bus supporting up to 32 modules
- 4 objects
- 16 partitions
- 32 system timers
- 8 telephone numbers for messaging
- voice synthesizer support
- 16 voice messages
- 32 pager messages
- 64 user codes
- 899 events log
- switching-mode power supply
 - load capacity: 1.7A
 - short-circuit protection
 - battery charging and diagnostic
 - battery deep discharge protection

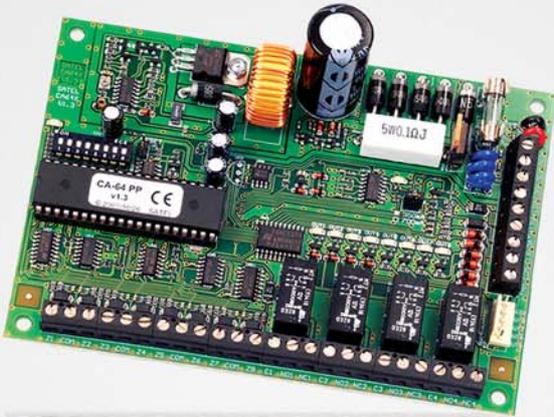
INTEGRA 128 Main Board

- 16 zones, expandable up to 128
- 16 programmable outputs (4 high-current and 12 low-current), expandable up to 128
- 2 power supply outputs with electronic overload protection
- keypad bus supporting up to 8 keypads
- 2 expander buses supporting up to 64 modules
- 8 objects
- 32 partitions
- 64 system timers
- 16 telephone numbers for messaging
- support for 2 voice synthesizer modules
- 32 voice messages
- 64 pager messages
- 240 user codes
- 22527 events log
- switching-mode power supply
 - load capacity: 3A
 - short-circuit protection
 - battery charging and diagnostic
 - battery deep discharge protection



CA-64 PP sub-panel module

- 8 zones
- 8 outputs
 - 4 low-current, OC type
 - 4 relay outputs
- 2.2A switching-mode power supply with battery charging, diagnostic and deep discharge protection
- additional module tamper input



Zone expansion modules

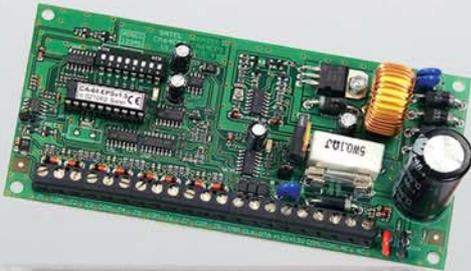
CA-64 E

- 8 zones
- additional module tamper input



CA-64 EPS

- 8 zones
- 2.2A switching-mode power supply with battery charging, diagnostic and deep discharge protection
- additional module tamper input



CA-64 ADR addressable bus expansion module

- dedicated independent bus for addressable detectors
- support for up to 48 addressable zones
- 2.2A switching-mode power supply with battery charging, diagnostic and deep discharge protection
- additional module tamper input



Output expansion modules

CA-64 O-OC

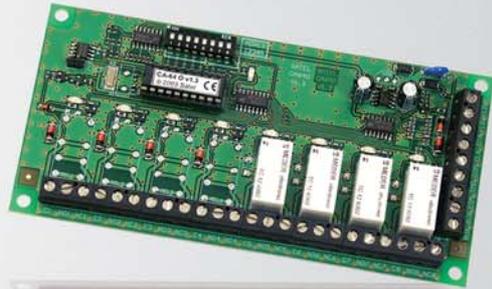
- 8 outputs, OC type
- additional module tamper input

CA-64 O-R

- 8 relay outputs
- additional module tamper input

CA-64 O-ROC

- 4 outputs, OC type
- 4 relay outputs
- additional module tamper input



CA-64 OPS-OC

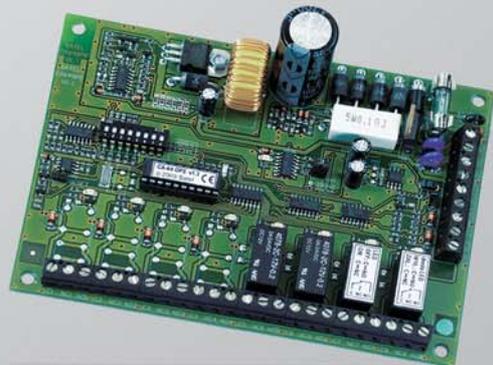
- 8 outputs, OC type
- 2.2A switching-mode power supply with battery charging, diagnostic and deep discharge protection
- additional module tamper input

CA-64 OPS-R

- 8 relay outputs
- 2.2A switching-mode power supply with battery charging, diagnostic and deep discharge protection
- additional module tamper input

CA-64 OPS-ROC

- 4 outputs, OC type
- 4 relay outputs
- 2.2A switching-mode power supply with battery charging, diagnostic and deep discharge protection
- additional module tamper input



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 SM voice synthesizer expansion module

- 16 voice messages, 15 s each



VMG-16 voice message player

- audio messages for specific system events
- up to 16 different messages
- communication bus for control panel
- minijack socket for headphones/speaker connection
- powered output for direct speaker connection
- RS-485 port
- additional module tamper input



ETHM-1 ethernet module

- remote system control through TCP/IP networks:
 - with PC, using GUARDX, GUARD64 and DLOADX applications
 - with Java™ enabled mobile phone running MobileKPD
 - with Web browser (Java™ applet)
- support for automatic IP configuration with DHCP
- 192 bit encryption
- control panel bus communication
- RJ-45 jack for ethernet cable
- RS-232 for easy upgrades of module firmware, and INTEGRA
- upload/download support
- monitoring through Ethernet TCP/IP networks
- RS-485 port



CA-64 PTSA synoptic board

- partitions and zones visualization by LEDs
- GuardX communication via RS-232 port
- control panel bus communication
- 2.2A switching-mode power supply with battery charging, diagnostic and deep discharge protection
- additional module tamper input



Access Control Equipment

INTEGRA SZ code lock

- 12 button keypad
- permanent or temporary backlight
- 3 LEDs: STAND BY, ACCESS, DOOR
- PANIC, FIRE, AUX hold-down keypad alarms
- acoustic signaling
 - keypad operation
 - door left open
- relay for electromagnetic lock/electric strike
- door status monitoring input (NC)
- keypad tamper switch



CA-64 DR iButton (Dallas) reader expansion module

- relay for electromagnetic lock/electric strike
- door status monitoring input (NC)
- supports 1 or 2 iButton readers

CA-64 SR proximity card readers expansion module

- relay for electromagnetic lock/electric strike
- door status monitoring input (NC)
- supports 1 or 2 proximity card readers



CZ-EMM/CZ-EMM2 proximity card reader

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



KT-STD-1 proximity card

- active identifier, generating a unique 40-bit code
- 125kHz EM Marin type
- dimensions: 85x55x1mm



INT-KLCD, INT-KLCDR, INT-KLCDS, INT-KLCDL, INT-KLCDK Keypads

- LCD display
 - 2x16 characters
 - event log reviewing
 - zones status displaying
 - partitions status displaying
 - system clock and date
 - service note - a convenient way to remind the user e.g. about periodic maintenance of the system
- keypad and display backlight
 - permanent
 - temporary upon keypress
 - automatically activated by zone triggering or entry delay
- PANIC, FIRE, AUX hold-down keypad alarms
- 6 LEDs for system state indication
- acoustic signaling
 - alarm
 - trouble
 - entry delay
 - exit delay
 - autoarming delay
 - zone violation (chime)
 - keypad operation
- 2 zones expansion
- keypad tamper switch
- control panel communication loss indication
- RS-232 interface for GuardX communication
- proximity card reader in INT-KLCDR keypads

INTEGRA S Partition Keypad

- controls single system partition
- keypad backlight
 - permanent
 - temporary upon keypress
 - automatically activated by zone triggering or entry delay
- PANIC, FIRE, AUX keypad hold-down alarms
- 3 LEDs indicating partition status
- acoustic signaling
 - alarm
 - entry delay
 - exit delay
 - autoarming delay
 - door left open
 - keypad operation
- relay to control electromagnetic lock/electric strike
- door status input (NC)
- keypad tamper switch



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 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 ethernet networks
 - remote via telephone line, ISDN or GSM network

DLOADX upload/download software

- operation in Windows 98/ME/2000/XP 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
 - remote via telephone line, ISDN or GSM network



INTEGRA SYSTEM

- 4 to 128 zones
 - loop termination options: NO, NC, EOL, 2EOL/NO or 2EOL/NC
 - selection of zone functions
 - detector performance supervision features
- 4 to 128 outputs
- 4 to 32 partitions
 - controlled by users, timers, controlling inputs, dependent on other partitions
 - grouped into up to 8 objects
 - temporary blocking of partitions
- compatibility with range of expansion modules, shared with the CA-64
- system operation and management
 - LCD keypad
 - partition keypad
 - user computer (via RS-232 port, telephone line or TCP/IP network)
 - web browser
 - Java enabled mobile phone
- control panel firmware
 - FLASH memory based
 - easy updates without the need to disassemble the equipment
- programming control panel settings
 - locally by means of LCD keypad
 - locally by means of computer connected to RS-232 port
 - remotely by means of computer connecting to the control panel through a modem
 - remotely over TCP/IP networks
 - nonvolatile FLASH memory to back-up control panel settings
- access codes
 - 16 to 240 user codes
 - up to 8 master codes (1 code for each object)
 - 1 service code
 - several types of user codes with an option to define additional rights for system access
 - keypad function menu depending on the user authority and code type
 - partition keypads, code locks and proximity card readers

access rights definition

 - periodic change of access codes by means of prefixes for better protection against unauthorized access to the facility
 - partitions controlled with two codes
 - users, partitions, zones, outputs and module names editing for easy management of the system
- timers
 - 16 up to 64 installer defined system timers,
 - user defined partition timers
- event log
 - 899 to 22527 entries
 - events recorded: arming/disarming, alarms, alarm restores, zone bypassing, failures, user functions etc.
 - access control events recording
 - event timestamping
- complex event printing
 - optional event selection
 - zones, modules and user names as defined in the system
- access control
 - door status supervision
 - electromagnetic lock/electric strike control by partition keypads, code locks, proximity card and Dallas iButton readers
 - door status monitoring does not influence the available number of control panel zones
 - electromagnetic lock control does not reduce the available number of control panel outputs
- telephone monitoring
 - 4 monitoring stations numbers (2+2 back-up numbers)
 - 9 identifiers
 - transmission formats: basic 4/2, Contact ID or TELIM
- messaging
 - 4 up to 16 telephone numbers
 - 16 up to 32 voice messages
 - 16 up to 64 text messages
 - message acknowledgement with a remote telephone DTMF code
- call answering
 - recording in event log
 - remote partition state supervision
 - remote outputs controlling
- advanced telephone line signal analysis
 - TBR-21 compliant signal pattern recognition
 - intelligent redial attempts
 - programmable control panel redial scheme
- internal 300bps modem
- support for fast external modems
 - fast upload/download (DLOADX)
 - convenient remote supervision and management (GUARDX)
 - support for analog, ISDN and GSM modems
- communication buses for system expansion
- advanced control functions with logic outputs combinations
- automatic diagnostics of core system components
- real-time clock with calendar and battery back-up
- visual indication of output status, battery charging circuit and telephone dialer
- electric protection of all zones, outputs and communication buses

