



Intellect

Reference Guide for integration modules

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Integration features and capabilities

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Integration capabilities

Equipment manufacturers	Co-promotion
Installers and dealers	Effective solutions for customers
Users	Universal platform for various security equipment

Integration types

IDDK+ACTIVEX is the package for *Intellect* integration with third-party software applications. *ITV|AxxonSoft* distributes the package and offers consultations on it for free. The package is licensed by purchasing the Remote Workplace (RW).

Module in INTELLECT™

Integration solutions with Intellect™ module

Almost any integration has 4 main data flows:

1. Events
2. Control commands
3. Status request and reset
4. Configuration commands

The following integration solutions can be used for these data flows:

1. Low-level protocol. Events, reactions, configuration commands are programmed in the software as a byte pattern from equipment.
2. SDK – Software Development Kit. Events, reactions, configuration commands and status scans are programmed in the software as ready functions.
3. Communications server (Software driver) is the interface between ITV|AxxonSoft software and equipment with events, reactions, configuration commands and status scan. COM server and OPC server are examples of these programs.
4. SOFT-SOFT. Events, reactions, configuration commands and status scans are programmed when 2 software programs interact. Database synchronization is a way of SOFT-SOFT integration when 2 software programs share 1 database, e.g., to access the event log.

Composite SFA/ACS

Integration with Honeywell Galaxy Dimension

Manufacturer	Honeywell Systems Group Video and Access Control Solutions Aston Fields Road Whitehouse Industrial Estate Runcorn Cheshire WA7 3DL United Kingdom Tel: +44 (0)8448 000 235 Fax: + 44 (0)01928 754050 Email: sales.video.uk@honeywell.com www.security.honeywell.com
Integration type	Low-level protocol
Equipment connection	RS-232

Supported equipment

Equipment	Function	Features
Galaxy GD-48	Control panel	<ul style="list-style-type: none"> 8 independent protected areas up to 48 detection zones (16 zones on-board) up to 8 doors up to 100 card holders per system 19 weekly schedules supports up to 8 keypads Support for 1 graphical touch-screen keypad Individual AC (500 events) and FA (1,000 events) event logs Supports several communications options (PSTN, ISDN, Ethernet) Up to 8 Audio Verification (listen-in) channels Compliant to all relevant Russian and European standards Fully compatible with existing Galaxy range
Galaxy GD-96	Control panel	<ul style="list-style-type: none"> 16 independent protected areas up to 96 detection zones (16 zones on-board) up to 32 doors up to 250 card holders per system 35 weekly schedules supports up to 16 keypads Support for 2 graphical touch-screen keypads Individual AC (1,000 events) and FA (1,500 events) event logs Supports several communications options (PSTN, ISDN, Ethernet) Up to 16 Audio Verification (listen-in) channels Compliant to all relevant Russian and European standards Fully compatible with existing Galaxy range
Galaxy GD-264	Control panel	<ul style="list-style-type: none"> Up to 520 zones Control of access for 64 doors Up to 1000 card holders per system 67 weekly schedules Supports up to 16 keypads Supports for 2 graphical touch-screen keypads Individual ACS (1,000 events) and FAS (1,500 events) event logs Supports several communications options (PSTN, ISDN, Ethernet) Up to 32 Audio Verification (listen-in) channels Compliant to all relevant Russian and European standards Fully compatible with existing Galaxy range
Galaxy GD-520	Control panel	<ul style="list-style-type: none"> Up to 520 detection zones Control of access for 64 doors Up to 1000 card holders per system 67 weekly schedules Supports up to 32 keypads Supports for 4 graphical touch-screen keypads Individual ACS (1,000 events) and FAS (1,500 events) event logs Supports several communications options (PSTN, ISDN, Ethernet) Up to 32 Audio Verification (listen-in) channels Compliant to all relevant Russian and European standards Fully compatible with existing Galaxy range
DCM	Access controller	<ul style="list-style-type: none"> Up to 2 doors controlled (up to 64 per system). Up to 999 users (card holders). Separate Access event log (up to 1000 events). User's access controlled by access templates and group set status (armed/disarmed). Up to 32 yearly holiday schedule Area behind a door is unset automatically upon access if user has authority. This prevents false alarms due to failure to unset. <p>Wiegand compatibility</p> <ul style="list-style-type: none"> Gives the flexibility to work with a huge range of reader and card technologies up to 40 bits. Allows compatibility to retrofit existing installations Compatible with Wiegand keypads that use 8-bit burst mode

Protection

1 COM port, in fact – any one Galaxy GD control panel.

Integration with HID

Manufacturer	HID Global 611 Center Ridge Drive Austin, TX 78753 U.S.A Tel: (949) 732-2000, (800) 237-7769 www.hidglobal.ru
Integration type	SDK
Equipment connection	Ethernet

Supported equipment

Equipment	Function	Features
V1000	Network controller	Up to 32 interfaces for doors/readers, controllers or interfaces of output control using two independent networks RS-485 2 imbedded inputs and outputs for local control of inputs and additional management of outputs Storing complete access control and configuration database for up to 32 reader interfaces (up to 64 doors) and 250000 cardholders Interaction with maximum 32 combination of devicesboard
V2000	Network door controller	Two readers connection through the Wiegand or Clock-and-Data interface to control one or two doors Storing complete access control and configuration database for 2 reader interfaces (up to 2 doors) and 250000 cardholders Interface for two Wiegand or Clock-and-Data readers; inputs for two door contact; 2 REX switches; AC fail; battery fail and tamper.
V100	Interface module	Connecting to controller through the RS-485 interface 2 doors and 1 reader or 1 door and 2 readers
V200	Interface module	Connecting to controller through the RS-485 interface Up to 16 control points for each device
V300	Interface module	Connecting to controller through the RS-485 interface Up to 12 control relays for each device
EH400	Network controller	Possibility to interact with one or two Hi-O iCLASS readers
OMNIKEY® 5321 CL SAM	Reader (integrated separately)	

Protection

1 IP-address.

Integration with Paradox

Manufacturer	Paradox Security Systems Canada 780 Industrial BoulevardSt-Eustache, QuebecCanada, J7R 5V3 Tel: (450) 491-7444 Fax: (450) 491-2313
Integration type	Low-level protocol
Equipment connection	RS-232, USB

Supported equipment

Equipment	Function	Features
EVO48	Control Panel	48 zones maximum 8 on-board zones (16 ATZ) 4 partitions 96 user codes In-field firmware upgrade Access control (doors maximum) 32 Access levels/schedules 16 / 16 1024 events buffered PGMs 250 (2 on board) PGM (+/-) trigger 32 virtual zones 127 expansion modules PCS100 Module (GSM module) Internet Module (IP100) Plug-In Voice Module (VDMP3) Listen-In Module

EVO192	Control Panel	192 zones maximum 8 on-board zones (16 ATZ) 8 partitions 999 user codes In-field firmware upgrade Access control (doors maximum) 32 Access levels/schedules 16 / 32 2048 events buffered PGMs 250 (5 on board) PGM (+/-) trigger 32 virtual zones 254 expansion modules PCS100 Module (GSM module) Internet Module (IP100) Plug-In Voice Module (VDMP3) Listen-In Module
ACM12	Access controller	Allows access with Card and/or PIN when used with R915 Allows arming with Card and/or PIN when used with R915 Allows access control for one door (reader, REX device, a door contact and a locking device can be connected) Only 4 wires to connect R910 or R915 reader In-field firmware upgrade via CV4USB using WinLoad Automatic unlocking schedule Door Left Open and Door Forced Open options Door unlock and extended delay timers Unlock door manually with button or PGM event
	Unlock Door On Fire Alarm option	

Safe Mode option (during a communication loss, the access control door connected to the module can grant access to up to 4 specified cards or any valid access card)

Built-in supervised 1.5A switching power supply

Push button to activate or deactivate the Auxiliary output

Supports 4-wire and 26-bit Wiegand card readers |

Protection

1 EVO48/192 control panel (ACM12 is supported by EVO).

Integration with FoxSec

Manufacturer	FoxSec Tel: (372) 666-14-00 E-mail: info@foxsec.eu http://www.foxsec.eu/ru/
Integration type	Low-level protocol
Equipment connection	Ethernet

Supported equipment

Equipment	Function	Features
FS9000	Центральная панель	16 zone inputs (expandable up to 240) Up to 240 security areas 8 programmable relay outputs (24V/5A/NO/NC) (expandable up to 240) 2880 users Access only 4- or 6- digit PIN number or PIN number and card Data communication 10 MB Ethernet 1 separate optically isolated data line for connection of up to 14 in / 8 out expansion modules 64 time and keyboard restriction groups 2500 event memory
FS7002PX (MK)	Door controller	2 doors (up to 4 readers) 2 doors outputs (5A) 2 programmable additional relay output Up to 1850 card users and 500 last event memory Compatible card readers: 26-bit Wiegand format reader (PX), magnetic strip reader (MK)

FS7011PX (MK)	Door controller	Access with card and/or user code from R915 Arm using card and/or user code from R915 Access control of one door (it is possible to connect reader, output button, door contact and lock) Only 4 wires to connect R910 or R915 readers Firmware updating from PC through CV4USB using WinLoad Auto opening door by schedule Information about opened doors and tampers Timers of door opening and prolonged delay Manual opening of door by button or by event of RGM output activation Doors opening while fire alarm «Safety mode» option (module works with 4 specially programmed access cards while losing connection with panel) Imbedded impulse AC on 1,5A Button of power output control Works with 4-wires 26-bit Wiegand readers
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Protection

For parent object.

Integration with Apollo SDK v.2

Manufacturer	AAM Systems Office address: Kraznokazarmennaya str., 13-402 Moscow Post address: Kraznokazarmennaya str., 14 Moscow, 111250 Tel: +7 (495) 924-2227 Fax: +7 (495) 362-7262 E-mail: aam@aamsystems.ru www.aamsystems.ru
Integration type	SDK
Equipment connection	RS-232, IP

Supported equipment

Equipment	Function	Features
AAN-100	Network controller	Central processor - MC68311 CPU 32 bit Memory - to 8 Mb Real time clock - yes PC connection interfaces: RS232 - 1 or Ethernet - 1 Interfaces for connection with interface modules, security and relay panels: RS485 - 4 or Ethernet - 4
AAN-32S	Network controller	Central processor - MC68311 CPU 32 bit Memory - to 2 Mb Real time clock - yes PC connection interfaces: RS232 - 1 Interfaces for connection with interface modules, security and relay panels: RS485 - 1 or Ethernet - 1

AAN-32N	Network controller	Central processor - MC68311 CPU 32 bit Memory - to 2 Mb Real time clock - yes PC connection interfaces: Ethernet - 1 Interfaces for connection with interface modules, security and relay panels: RS485 - 1 or Ethernet - 1
AIM-2SL	Access controller	Central processor - M68HC11 CPU Memory: Work storage RAM:128kB EEPROM:512 k Real time clock - yes Connection interfaces: Wiegand readers - 2 Interfaces for connection with interface modules, security and relay panels: RS485 - 1 or Ethernet - 1
AIM-4SL	Access controller	Central processor - M68HC11 CPU Memory: Work storage RAM:128kB EEPROM:512 k Real time clock - yes Connection interfaces: Wiegand readers - 4 Interfaces for connection with interface modules, security and relay panels: RS485 - 1 or Ethernet - 1
AIO-168	Security panel	Security loops – 16 Relay outputs - 8 Interfaces of connection to central controller: RS485 – 1 or Ethernet – 1
ASA-72	Status panel	Is taken out of production

Protection

There are four positions in the price-list for one module:

Integration with Apollo (one server)
Integration with Apollo (one reader)
Integration with Apollo AIO-168
Integration with Apollo (one ASA-72)

Integration with Apollo (one server) – is an electronic guardant key protected Apollo SDK v.2 from the manufacturer site and storing serial keys of all devices. There is at least one key for system.

If hardware is connected to several servers with Intellect core then additional purchase of electronic protect keys is required for each second and next servers (Integration with Apollo (one reader)). Own configuration for each electronic key – in accordance with settings in the object tree of the *Intellect* software.

It is required to present all serial numbers of hardware at the time of module order.

Protection doesn't depend on number of connected senior panels (AAN-100 and/or AAN-32). Protection depends only from number of connected terminals (readers, sensor/relay, ASA-72). It requires with specifics of module sublicensing in

company-manufacturer of module.

Apollo SDK v.2 software module can works with AIM-*SL controllers directly. Also there is possibility to work with several AIM-*SL controllers using network controller ENI-110.

Integration with software

Integration with SALTO

Manufacturer	Salto Systems, S.L., C/Arkotz 9 Pol. Lanbarren 20180, Oiartzun (Gipuzkoa) info@saltosystems.com
Integration type	SOFT-SOFT. Salto Access PRO.
Equipment connection	Ethernet

Supported equipment

Equipment	Function	Features
CU50EN	On-line controller	2 reader connections 2 relay outputs Maximum number of users per door: 64,000 Maximum number of doors in a system: 64,000 Maximum events on door controller: 300 Time zones: 256 Time periods: 30 Calendars in system: 256 Zones in system: 1,024 User groups: unlimited Ethernet interface
CU50ENSVN	On-line controller	2 reader connections 2 relay outputs Maximum number of users per door: 64,000 Maximum number of doors in a system: 64,000 Maximum events on door controller: 300 Time zones: 256 Time periods: 30 Calendars in system: 256 Zones in system: 1,024 User groups: unlimited Ethernet interface
Encoder	Desktop reader	Reading, encoding and updating cards

Protection

1 IP address. SHIP module is to be purchased as integration is performed using the SHIP protocol.

Integration with Castle

Manufacturer	«PromAutomatica Service», 603001, Nizhny Novgorod, Chernigovskaya str., 17-A
Integration type	Soft-soft
Equipment connection	RS-232, USB, Ethernet

Supported equipment

Equipment	Purpose	Feature
EP4	Access controller	7000 keys 500 time zones 40000 events Connection interface: Ethernet Readers interface: Wiegand-26, Dallas Touch Memory

EP2	Access controller	7000 keys 500 time zones 40000 events Connection interface: Ethernet Readers interface: Wiegand-26, Dallas Touch Memory
PRO4	Access controller	7000 keys 500 time zones 40000 events Connection interface: RS-485 Readers interface: Wiegand-26, Dallas Touch Memory
EP	Access controller	7000 keys 500 time zones 40000 events Connection interface: Ethernet Readers interface: Wiegand-26, Dallas Touch Memory
PRO	Access controller	7000 keys 500 time zones 40000 events Connection interface: RS-485 Readers interface: Wiegand-26, Dallas Touch Memory
ES	Access controller	96000 keys 30000 time zones 400000 events Connection interface: Ethernet Readers interface: Wiegand-26, Dallas Touch Memory
RS	Access controller	96000 keys 30000 time zones 400000 events Connection interface: RS-485 Readers interface: Wiegand-26, Dallas Touch Memory

Protection

1 IP-address (Castle Server). Castle Server requires the Hasp protection key.

Integration with Paxton

Manufacturer	Paxton House Home Farm Road Brighton BN 1 9 HU United Kingdom support@paxton.co.uk Skype: paxton.support
Integration type	SOFT-SOFT
Equipment connection	RS-232, USB, Ethernet

Supported equipment

Equipment	Function	Features
Net2 nano	Access controller	Cards: 10,000 Time zones: 64 Access levels: 250 Events: 3,584 Readers: 2
Net2 plus	Access controller	Cards: 50000 Time zones: 64 Access levels: 250 Events: 2,728 Readers: 2
Net2 classic	Access controller	Cards: 10,000 Time zones: 64 Access levels: 250 Events: 2,000 Readers: 2

Protection

1 IP address.

Integration with Impro

Manufacturer	Impro Technologies Suite N, Terrace Plaza 1810 S. Pinella Avenue Tarpon Springs Florida 34689 Tel.: +1 727 249 8006 Email: sales@impro.net
Integration type	Soft-Soft
Equipment connection	Ethernet, RS485

Supported equipment

Equipment	Function	Features
Impro (ECII) Ethernet Controller	Controller	Communication interface RS485 Protocol TCP/IP, UDP Baud rates 9600, 19200, 28800, 38400 и 57600
Impro (iTRT) Intelligent Twin Reader Terminal	Terminal	Communication interface Ethernet, RS485 Full Wiegand support Connection to up to two readers Relaxed or Full Anti-passback access 4 digital inputs including two DOS and two RTE inputs
Impro (iTt) Intelligent Twin Antenna Terminal	Terminal	Communication interface Ethernet, RS485 Storage up to 10000 transactions EOL and DOS inputs Connection to up to two antenna readers
Impro (MDTA) Multi-discipline Time Attendance Terminal	Terminal	Communication interface RS485 PIN-code entry using the 12-button keypad
Impro I16 16 Channel Input Terminal	Terminal	16 digital inputs Communication interface RS485 User interface consisting 20 LED status indicators
Impro O16 16 Channel Output Terminal	Terminal	16 relays Communication interface RS485 User interface consisting 20 LED status indicators

Protection

For 1 parent object and terminal.

ACS Systems**Integration with NAC ACS**

Manufacturer	Neuroinformatics RDC 105082, Moscow, B.Pochtovaya st., 7, bld.1, 6 th fl. Tel: +7 (499) 265-47-90, 265-49-07, 265-49-08, 265-49-18 Tel/fax: +7 (499) 265-49-18 info@niform.ru www.niform.ru
Integration type	Low-level protocol
Equipment connection	RS-232 - converter - RS-422

Supported equipment

Equipment	Function	Features
NAC-51/W400P	Access controller	Wire PC connection Number of access points: 1 or 2 Number of cards: up to 400 No shift schedules AntiPassBack Types of keys: Wiegand 26 Holiday support RS-232 interface for PC (RS-485 converter) RS-422 interface for controllers Number of controllers: up to 8 for a line
NAC-51/W6500	Access controller	Wire PC connection Number of access points: 1 or 2 Number of cards: up to 6,500 No shift schedules AntiPassBack (except W6500CPE) Types of keys: Wiegand 26 Holiday support RS-232 interface for PC (RS-485 converter) RS-422 interface for controllers Number of controllers: up to 8 for a line
NAC-51/W6500 IP	Access controller	Wire PC connection Number of access points: 1 or 2 Number of cards: up to 6,500 No shift schedules AntiPassBack Types of keys: Wiegand 26 Holiday support RS-232 or Ethernet interface for PC (RS-485 converter) RS-422 interface for controllers Number of controllers: up to 8 for a line

Protection

1 COM port. Up to 8 controllers can be connected via RS422.

Integration with Gate

Manufacturer	Ravelin Ltd. 197022, St.-Petersburg, Professor Popov's str., bld. 4 Tel: +7 (812) 327-50-32 E-mail: ravelin@ravelinspb.ru
Integration type	Low-level protocol
Equipment connection	RS-232, USB, Ethernet

Supported equipment

Equipment	Function	Features
Gate-4000 (all modifications)	Access controller	Connected readers: 2 Relay: 2 Max. capacity of key memory bank: 4072 Max. capacity of events memory bank: 4095 Max. number of controllers in network: 254 Max. time of key recognition 0,8s (for 4000 keys) RS-485/RS-422 interface

Gate-8000 (all modifications)	Access controller	Connected readers: 2 Relay: 2 Max. capacity of key memory bank:8000 Max. capacity of events memory bank: 8000 Max. number of controllers in network: 254 Max. time of key recognition 0,8s (for 4000 keys) RS-485/RS-422 interface
Gate-4000 Parking	Access controller	Connected readers: 2 Relay: 2 Max. capacity of key memory bank: 4072 Max. capacity of events memory bank: 4095 Max. number of controllers in network: 254 Max. time of key recognition 0,8s (for 4000 keys) RS-485/RS-422 interface
Gate-8000-Ethernet	Access controller	Connected readers: 2 Relay: 2 Max. capacity of key memory bank: <ul style="list-style-type: none"> • two-door mode: 8167 • one-door, turnstile and gate mode: 16334 Max. capacity of events memory bank: 8192 Max. time of key recognition 0,6s (for 8000 keys) Interface of connected readers: Wiegand, 1-Wire (TM), ABA-2 Type of connection: Ethernet

Protection

For 1 controller.

Integration with BIOSMART

Manufacturer	Prosoft-Biometrics Ltd. 620149, Ekaterinburg, Zoological str., bld. 9 E-mail: biosmart@prosoftsystems.ru
Integration type	Low-level protocol
Equipment connection	RS-232, USB, Ethernet

Supported equipment

Equipment	Function	Features
PROX-E	Independent access controller	Cards: 16000 Maximal number of users by fingerprints for one BioSmart Mini reader: 100 Max. number of events:100 000 Identification time 1:3 000 not more 1 sec Number of reader devices 4 Number of outputs (Wiegand or discrete output) 2 Number of discrete inputs 6 Time zones 64 (5 intervals for each day, 32 holidays) "Gate" mode - two-cycle mode with stopping for check incoming Antipassbach Pass with attendant Multi-users identification Door locking while arming Doors unlocking while fire alarm Ethernet interface

PROX v.2	Independent access controller	Cards: 3000 Maximal number of users by fingerprints for one BioSmart Mini reader: 100 Max. number of events:40 000 Identification time 1:3 000 not more 1 sec Number of reader devices 4 Number of outputs (Wiegand or discrete output) 2 Number of inputs (Wiegand or LED indication) 2 Number of discrete inputs 6 Time zones 64 (5 intervals for each day, 32 holidays) "Gate" mode - two-cycle mode with stopping for check incoming Antipassback Pass with attendant Multi-users identification Door locking while arming Doors unlocking while fire alarm Ethernet interface
Biosmart 4 (all modifications)	Fingerprint scanner/Access controller	Max. number of fingerprints in local mode 500 Max. number of fingerprints in server mode 3000 Maximal number of users in the card+finger mode 3000 Max. number of cards in local mode 3000 Max. number of events 40000 Time zones 64 time groups (5 intervals for each day, 32 holidays) Capacity (SteelCoat)/optical fingerprint scanner Embedded EM-Marine cards reader RS-485, Ethernet interfaces
Biosmart-mini		Max. number of users for identification by fingerprints (up to 5 fingerprints for each user) 100 Max. number of cards 100 RS-485 interface

Protection

1 COM port or 1 IP-address.

Integration with Securiton ACS

Manufacturer	Securiton AG Address: Russia, Moscow, Lobachevskogo st. 100, bld. 1, of. 320 Tel: (495) 932-76-25 Fax: (495) 932-76-26 Email: securiton@securiton.ru
Integration type	Low-level protocol
Equipment connection	Ethernet

Supported equipment

Equipment	Function	Features
Securiprox SC 04.01	Site controller	Number of connected door readers: 93 3 RS-485 interfaces (up to 31 door controllers for each one) Number of users: 45,000 Number of readers: 255 Number of time zones: 1,000 Event log: 25,000 Antipassback Ethernet interface
Securiprox DC 04.01	Door controller	Number of inputs: 16 Number of users: 45,000 Number of readers: 4 Number of relays: 4 Number of time zones: 1,000 Event log: 2,000 Antipassback Ethernet interface

Protection

Integration with KeyKing ACS

Manufacturer	Add: 5F, Keyking Building, 12th, Shangwei Industrial No.1 Road, Zhangkengjing, Guanlan Town, Baoan District, Shenzhen, China, 518110. Tel: (+86)755-8829 9009 Fax: (+86)755-8829 9004 E-mail: info@keyking.net
Integration type	Low-level protocol
Equipment connection	RS-232, RS-485, Ethernet

Supported equipment

Equipment	Function	Features
TC312NT	Access controller	1 door 2 readers Card capacity: 30,000 15,000 events 15 time groups for each door 127 controllers for 1 RS485 bus
TC322NT	Access controller	2 doors 2 readers Card capacity: 30,000 15,000 events 15 time groups for each door 127 controllers for 1 RS485 bus
TC344NT	Access controller	4 doors 4 readers Card capacity: 30,000 15,000 events 15 time groups for each door 127 controllers for 1 RS485 bus
TC348NT	Access controller	4 doors 8 readers Card capacity: 30,000 7,500 events 15 time groups for each door 127 controllers for 1 RS485 bus
TC388NT	Access controller	8 doors 8 readers Card capacity: 30,000 7,500 events 15 time groups for each door 127 controllers for 1 RS485 bus

Protection

1 reader.

Integration with Soyal ACS

Manufacturer	Soyal Technology CO., LTD 11 F., No.368, Gongjian Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.) Tel: +886-2-2691-8031 Fax: +886-2-2691-8093 E-mail: sales@soyal.com
Integration type	Low-level protocol
Equipment connection	RS-232, RS-485, Ethernet

Supported equipment

Equipment	Function	Features
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AR-721E	Access controller	2 doors 2 readers User capacity: 3,000 Event log: 1,456 63 time zones RS-485 communication port
AR-716E-IO	I/O module	Digital input: 4+8 Relay output: 4+8 Supports AR-721E
AR-723(H)	Access controller	1 door 1+1 readers User capacity: 1,024 Event log: 1,200 11/63 time zones (connect to AR-721E) RS-485 communication interface Stand-alone or being a part of AR-721E
AR-737(H-R)	Access controller	1 door 1+1 readers User capacity: 1,024 Event log: 1,200 11/63 time zones (connect to AR-721E) RS-485 communication port Stand-alone or being a part of AR-721E
AR-721(H)	Access controller with a keypad	1 door 1+1 readers User capacity: M4/M8 1024, M6 65000 Event log: 1,200 11/63 time zones (connect to AR-721E) RS-485 communication port Stand-alone or being a part of AR-721E
AR-725(H-M)	Access controller with a keypad	1 door 1+1 readers User capacity: M4/M8 1024, M6 65000 Event log: 1,500 11/63 time zones (connect to AR-721E) RS-485 communication port Stand-alone or being a part of AR-721E
AR-725(E-V2-M)	Access controller with a keypad	1 door 1+1 readers User capacity: 16,000 Event log: 32,000 63 time zones (connect to AR-721E) communication port: RS-485, Ethernet
AR-727(H)	Access controller with a keypad and LCD	1 door 1+1 readers User capacity: M4/M8 1024, M6 65000 Event log: 1,200 11/63 time zones (connect to AR-721E) RS-485 communication port Stand-alone or being a part of AR-721E

Protection

2 items in the price list:

1. 8 independent readers (for SOYAL-721, SOYAL-723, SOYAL-725, SOYAL-727 and SOYAL-737 controllers)
2. 1 SOYAL-716E controller (up to 16 readers).

Integration with Infinias/Pelco ACS

Manufacturer	Infinias 9340 Priority Way West Drive Indianapolis IN 46240 USA sales@infinias.com support@infinias.com Main Number: 317.348.1086
Integration type	Low-level protocol
Equipment connection	Ethernet

Supported equipment

Equipment	Function	Features
eIDC Intelli-M	Access controller	1 door 2 readers Number of cardholders: 64,000 (8,000 in offline mode) Event log: 16,000 254 time zones Communication port: Ethernet

Protection

1 IP address, in fact - 1 controller.

Integration with Suprema ACS

Manufacturer	Suprema 17F Parkview Office Tower, Jeongja, Bundang, Seongnam, Gyeonggi, 463-863 Republic of Korea www.supremainc.com
Integration type	SDK
Equipment connection	Ethernet

Supported equipment

Equipment	Function	Features
XPass	Controller	Max. number of users: 40000 Inputs: 2 Relay: 1 Ethernet interface
X-Station		Max. number of users: 200000 Inputs: 2 Relay: 1
BioEntry Plus	Fingerprint scanner	Max. number of users: 5000 Inputs: 4 Relay: 1 Ethernet interface
SecureIO		

Protection

Parent object and controllers.

Integration with Nitgen ACS

Manufacturer	Nitgen Co., Ltd. Fax : +82-2-6488-3096 Sales/Marketing :sales1@nitgen.com Customer Center :customer@nitgen.com
Integration type	SDK
Equipment connection	Ethernet

Supported equipment

Equipment	Function	Features
NAC 2500	Access controller	Log capacity: 67,500 logs Template capacity: 5,000 templates (2 templates/1 finger, 2,500 users) Lock: Deadbolt, EM Lock, Door Strike, Automatic Door Live fingerprint detection USB memory slot

Protection

1 controller.

Integration with Honeywell N-1000

Manufacturer	Honeywell Systems Group Video and Access Control Solutions www.security.honeywell.com
Integration type	Low-level protocol
Equipment connection	RS-232

Supported equipment

Equipment	Function	Features
N-1000	Access controller	25000 or 5000 cards 16 alarm inputs 8 relays 63 time zones 8 programmable card formans

Protection

1 controller.

Integration with Unicard ACS

Manufacturer	Unicard SA ul. Lagiewnicka 54 30-417 Krakow Phone: 12 39 89 900 Fax: 12 39 89 901 http://www.unicard.pl/
Integration type	Low-level protocol
Equipment connection	Ethernet

Supported equipment

Equipment	Function	Features
U700	Access controller	Interfaces: Ethernet, RS-232 / RS-485, AbaTrackII / Wiegand 16 notification zones (digital inputs/outputs) 34 supported access control points 16 IO-700 modules connecting via CAN
Module IO-700		4 readers connected

Protection

1 reader.

FSA Systems

Integration with Satel

Manufacturer	SATEL ul. Schuberta 79 80-172 Gdansk, Poland tel. +48 58 320-94-00 fax +48 58 320-94-01 e-mail: satel@satel.pl www.satel.pl
Integration type	Low-level protocol
Equipment connection	RS-232

Supported equipment

Equipment	Function	Features
INTEGRA 128	Advanced control panel	16 up to 128 zones 32 partitions 8 objects 16 up to 128 programmable outputs 64 timers 249 users Event log: 22,527 RS-232 port
INTEGRA 64	Advanced control panel	16 up to 64 zones 32 partitions 8 objects 16 up to 64 programmable outputs 64 timers 201users Event log: 5,887 RS-232 port
CA-64	Zone expansion module	8 zones
CA-640	Output expansion module	8 relays

Protection

Any one panel.

Integration with Polon

Manufacturer	Polon-Alfa Spółka z ograniczoną odpowiedzialnością Sp.k. ul. Glinki 155 85-861 Bydgoszcz, Poland E-mail: polonalfa@polon-alfa.com.pl Tel: +48 52 36 39 263
Integration type	Low-level protocol
Equipment connection	RS-232

Supported equipment

Equipment	Function	Features
POLON 4500	Fire extinguishing system control unit	Number of addressable lines: 4 x 127 addressable elements Number of detector zones: 512 Number of alarm variants: 17 8 relay outputs with potential-free change-over contacts 1 A / 30 V 4 signal lines 4 monitoring lines MSG-45 extinguishing module Number of potential-free relay outputs: 9 Number of potential relay outputs: 11 Number of supervising inputs: 11

POLON 4900	Fire extinguishing system control unit	Number of addressable lines: 4 or 8 x 127 addressable elements Number of detector zones: 1,024 Number of alarm variants: 17 16 relay outputs with potential-free change-over contacts 1 A / 30 V 8 signal lines 8 monitoring lines
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Protection

1 COM port, in fact any one fire extinguishing system control unit

Integration with Trombone

Manufacturer	ONYX Ltd 127015, Moscow, Novodmitrovskaya str., 5A bld., of.1000 Tel./Fax: (495)787-3424, (499) 760-8808 info@cctvonyx.ru www.cctvonyx.ru www.trombon.org
Integration type	Low-level protocol
Equipment connection	RS-232

Supported equipment

Equipment	Function	Features
CP-8	Control panel	Connected alarm lines 8 Zones of light notification 8 Zones of sound notification 8 Input of EMERCOM signals 1 Input to connect remote consoles 1 Number of connected remote consoles 8 Embedded sound processor for 2 voice messages Output of 220V booster power control 1 Output of 24V booster power control 1
CP-M-16	Control panel	Connected alarm lines 16 Zones of light notification 16 Zones of sound notification 16 Input of EMERCOM signals 1 Embedded sound processor for 8 voice messages Output of 220V booster power control 1 Output of 24V booster power control 1

Protection

1 COM port, in fact one control panel

Integration with UniPOS

Manufacturer	Mladost 1, block 79B, ent.2, fl. 1, app. 17 Sofia Bulgaria Tel. + 359 (0)2 97 444 69 Office_sofia@unipos-bg.com
Integration type	Low-level protocol
Equipment connection	RS-232

Supported equipment

Equipment	Function	Features
IFS 7xxx	Interactive fire control panel	4 fire alarm loops Number of zones: 500 Number of fire detectors in a zone: 60
FS 5xxx	Conventional fire control panel	1 line Number of fire detectors in a line:32

FS 4000	Conventional fire control panel	2 to 8 lines Number of fire detectors in a line:32
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Protection

1 COM port.

Integration with HUNTER-PRO

Manufacturer	Pima Electronic Systems Ltd. 5 Hatzoref Street, Holon, 58856, Israel Tel.: +972 3 6506414 Fax: +972 3 5500442
Integration type	Low-level protocol
Equipment connection	RS-232

Supported equipment

Equipment	Function	Features
HUNTER-PRO 832	Fire extinguishing system control unit	Number of zones : 32 Number of wireless zones: 24 Number of areas: 16 Number of radio controlled suspenders: 24 Number of users: 32 Internal memory: 500 events Volatile memory: 250 events
HUNTER-PRO 896	Fire extinguishing system control unit	Number of zones : 96 Number of wireless zones: 32 Number of areas:16 Number of radio controlled suspenders: 24 Number of users: 96 Internal memory: 500 events Volatile memory: 250 events
HUNTER-PRO 8144	Fire extinguishing system control unit	Number of zones : 144 Number of wireless zones: 32 Number of areas: 16 Number of radio controlled suspenders: 24 Number of users: 144 Internal memory: 999 events Volatile memory: 512 events
EXP-PRO UNIV	Zone expander (internal)	8 additional zones
I/O-8N	Zone expander (external)	8 additional zones + relay
I/O-16	Zone expander (external)	16 additional zones + relay

Protection

Parent object.

Integration with Siemens Cerberus Eco

Manufacturer	Siemens SbT129085, Moscow, Bochkova str., bld. 8 Tel.: +7 (495) 796-92-10 http://www.nelt.ru/
Integration type	Low-level protocol
Equipment connection	RS-232

Supported equipment

Equipment	Function	Features
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Cerberus ECO FC1840-A3	Security panel	Max. number of reports in log: 10000 Auto disabling of LCD backlight 2 embedded programmed input/output 1 embedded output of NAC notification for notification devices Connection of up to 504 address devices
FDO181	Smoke detector	2 levels of sensitivity Embedded indicator with 360 degrees angle of view Protocol of data exchange FD18-BUS
FDCI181	Heat detector	2 working modes: A2S/A2R Embedded indicator with 360 degrees angle of view Protocol of data exchange FD18-BUS
FDCI181-2	Input module	2 digital inputs Analysis of signal using micro-processor Auto addressing without using address device or DIP-switch Protocol of data exchange FD18-BUS Displaying of input and output signal state on the LED indicator
FDCIO181-2	Input/Output module	2 controlled inputs, 2 output with possibility to control executable circuit Analysis of signal using micro-processor Auto addressing without using address device or DIP-switch Protocol of data exchange FD18-BUS Displaying of input and output signal state on the LED indicator
FDCL181	Line isolator	Protection of FD18-BUS bus in case of short circuit LED indicator to display state Auto addressing without using address device or DIP-switch Protocol of data exchange FD18-BUS

Protection

Parent object.

Integration with NCG-9

Manufacturer	Hi Tech Electronic LTD Main office - Plovdiv, Bulgaria bul."Osvobodzenie" 93, buil. 193, ent. V, fl.2, office 4Tel. +359 32 65 23 34Email: office@hitech-bg.com https://hitech-bg.com
Integration type	Low-level protocol
Equipment connection	IP

Supported equipment

Equipment	Function	Features
NCG-9	Controller	Inputs 8 Communication protocol TCP/IP
NCG-13	Controller	Inputs 13 Communication protocol TCP/IP

Protection

Parent object.

Integration with Polon Alfa

Manufacturer	Polon-Alfa Spółka z ograniczoną odpowiedzialnością Sp.k. ul. Glinki 15585-861 Bydgoszcz, Poland E-mail: polonalfa@polon-alfa.pl Tel.: +48 52 36 39 263 Fax: +48 52 36 39 264
Integration type	Low-level protocol
Equipment connection	COM port

Supported equipment

Equipment	Function	Features
CIE 4500	Address control and indicating equipment	Number of alarm loops 4 Max. number of detectors in loop 127 Number of monitoring zones 512 Number of alarm variants 17 Number of relay outputs 8
CIE 4900	Address control and indicating equipment	Number of alarm loops 4 Max. number of detectors in loop 127 Number of monitoring zones 1024 Number of alarm variants 17 Number of relay outputs 16

Protection

1 CIE.

Integration with Aritech

Manufacturer	Aritech 109383, Moscow, Peschaniy career, bld. 385-861 Bydgoszcz, Poland E-mail: info@aritech.pro Тел.: (495) 785-43-41, (495) 036-8694 www.aritech.pro
Integration type	Protocol
Equipment connection	COM port

Supported equipment

Equipment	Function	Features
FP2000	Address and analog control and indicating equipment	Number of alarm loops 8 Possibility to connect no-address devices Number of devices in loop 128 Number of devices in equipment 512 Standard outputs OUT1 - OUT4 Programmed outputs OUT5 - OUT8

Protection

Parent object.

Integration with DSC

Manufacturer	3301 Langstaff Road Concord, Ontario, Canada tel. (905) 760-3000 fax (905) 760-3004 http://www.dsc.com/
Integration type	Low-level protocol
Equipment connection	COM port

Supported equipment

Equipment	Function	Features
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DSC PC-1864	Control panel	8 on-board zones 8 partitions 95 user codes 500 events template programming
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Protection

For 1 partition and zone.

Integration with TELSAP

Manufacturer	Polon-Alfa Spółka z ograniczoną odpowiedzialnością Sp.k. ul. Glinki 155 85-861 Bydgoszcz, Poland E-mail: polonalfa@polon-alfa.com.pl Tel: +48 52 36 39 263
Integration type	Low-level protocol
Equipment connection	RS-232

Supported equipment

Equipment	Function	Features
Telsap 2100	Fire control panel	Zones in a group: 128 Groups: 64

Protection

Per 1 panel

Perimeter security systems

Integration with Optex

Manufacturer	OPTEX CO., LTD. HeadquartersPublic Relations TEL +81-77-579-8000FAX +81-77-579-7190
Integration type	Low-level protocol
Equipment connection	Ethernet

Supported equipment

Equipment	Function	Features
REDSCAN RLS-3060SH	Laser scan detector	Coverage: 30 m, 180° Unique detection algorithm 4 independent detection areas Automatic area setting function Built-in heater 4 independently linked outputs for PTZ camera control Anti-masking and anti-rotation function Tamper output Vertical and horizontal mounting
RedBeam RBM-60QN/100QN/200QN IP	Quad High Power Beam	Power supply to detector using a PoE hub or switch Double beam pulse synchronization The high-grade aspherical lens creates a more sharply defined and precise active infrared beam Weather system Interruption time: 50 - 500 ms Reliable operation when there is 99,5% beam energy loss 15 kV discharge protection Hermetic package that is insect-, dust-, freezing- and water-proof (IP-65) Double-zoom viewfinder, easy-to-see vivid interior color for optical alignment

Protection

1 IP address

Integration with FFT

Manufacturer	Future Fibre Technologies Limited 10 Hartnett Close, Mulgrave Victoria 3170 Australia Phone: +61 3 9590 3100 Fax: +61 3 9560 8000 http://www.fftsecurity.com/
Integration type	SOFT-SOFT
Equipment connection	Ethernet

Supported equipment

Equipment	Function	Features
Aura SR	High resilience perimeter security	Locates intrusion to within 6m Single system for fence and covert buried detection No electronics or power in the field Sensot cable cut resilience Immune to EMI, RFI & loghtning
Aura LR	Pipeline security	Valuable real-time early warning of TPI activities A single pipeline security system protects up to 40km of sensor cable length Locate instrusions to 10 metres on FFT approved installations Early warning of activities before the pipeline is damaged No electronics or power in the field
Secure point	Hardware zoned perimeter intrusion detection	Two independent zones in a remote capable controller Sensor cable immune to EMI, RFI & lightning Independent zones can be up to 500m long No electronics or power in the field High temperature rating for harsh environments Intensive lead-in cable up to 10km long
Foss locator		
8 Channels		



Note.

The *FFT* integration supports all devices which can be connected to the FFT Server.

Protection

For 1 loop.

Integration with Intrepid II

Manufacturer	Southwest Microwave, Inc.9055 South McKemy StreetTempe, Arizona 85284 USA Telephone: +1 (480) 783-0201 Fax: +1 (480) 783-0401
Integration type	Low-level protocol
Equipment connection	RS-232

Supported equipment

Equipment	Function	Features
Intrepid MicroPoint II (up to 4 processing units)		
PM II	Processing module	Number of zones: 2 Max.length of the zone: 200 meters Intrusion identification - within 3 meters
LU II	Link unit	PM combination (up to 8)
TU II	Terminator unit	Matching cable
AIM II	Alarm input module	Number of inputs: 8
ROM 8	Relay module	Number of relays: 8
ROM 16	Relay output module	Number of relays: 16
MicroWave 330	Processing module (radiator sensor)	Effective distance until 457 m / 244 m (CE)
Intrepid MicroTrack II (up to 4 processing units)		
MTP II	MicroTrack Processor	Number of zones: 2 Max.length of the zone: 210 meters Intrusion identification - within 3 meters
MTT	MicroTrack termination kit	Matching cable
MTI	MicroTrack in line termination	Matching cable
RCM II	Relay control module	Number of relays: 8 Number of inputs: 8
MicroWave 330	Processing module (radiator sensor)	Effective distance until 457 m / 244 m (CE)



Protection





1 COM port. Up to 4 processing modules (PM II or MTP II correspondingly).

Integration with Forteza

Manufacturer	Okhrannaya tehnika, Ltd. Zarechny, Penza region, Russia, 442960, P.O.box 45 Tel/fax: +7-8412-65-53-16 (multi-channel) E-mail: info@forteza-eu.com
Integration type	Low-level protocol
Equipment connection	RS-485

Supported equipment

Equipment	Function	Features	Photo
FORT-A	Adapter of external devices	Converts signal from voltage free output to RS-485 interface Provides possibility of connection two detecting devices	
FORT-K	Controller of executive devices	Provides control of two devices, transmitting information about relay contact state	

Zebra sensors	Microwave monostatic sensors	Division of detection area into 12 sub zones Several modifications with length of detection area for 84, 60, 30 m. Authorized access by disabling sub zones	
Forteza sensors	Microwave bistatic sensors	Several modifications with length of detection area for 500, 300, 100, 50 m. Up to four-frequency letters – eliminates ambient illumination from other sensors Working frequency 24 GHz	
Fosfor sensors	LED seachlight	Control of lighting level Missing of ambient illumination of video surveillance cameras by means of directed focused lighting Continuous light flux in all range of power supply Resistant to low input voltage drops	
MIR	Dual-technology monostatic sensors	Several modifications with length of detection area for 30, 10 m. High survivability Two different physical principles of detection are applied: monostatic microwave and monostatic infrared Division of detection area into 12 sub zones	

Protection

1 COM-port. In practice for 1 Fort-A.

Bry contact sensors are connecting to Fort-K (which is connected to Fort-A). Zebra and Fort-K sensors are connecting to Fort-A by RS-485.

Functional requirements for integration modules

Requirements for Access Control integration modules

The Access Control integration modules should support:

1. Combining access control with other security systems at the same control centers of the distributed system.
2. Programming Access Control system reactions to event, including events that occur in other security subsystems.
3. Providing a high degree of automation of the mechanism for managing access rights.
4. Combining users into groups.
5. Monitoring the system status and operability.

Requirements for Fire and Security Alarm integration modules

Fire and Security Alarm integration modules should support:

1. Processing of information from control panels, alarm sensors, and other notification devices
2. Control of actuators, audio and light alarm devices, etc.

Requirements for modules for Perimeter Security System integration

Modules for Perimeter Security System integrations shall support:

1. Processing of information from perimeter security sensors as well as sensors installed at the entrance to the object whose perimeter is secured
2. Control of actuators, security notification devices, entry/exit control devices (turnstiles and boom barriers)

Requirements for Time and Attendance module

The Time and Attendance module shall support the following functions:

1. Viewing the personnel structure of the company for each department and getting information for each employee.
2. Generating schedules and work plans of varying durations and assigning these to an employee or entire department.
3. Tracking employee accountability and overtime documents.
4. Calculating the total time worked for each employee of a unit and presenting the results as a table.
5. Creating a report with the total time worked by employees.

Requirements for Visitor Management System module

The Visitor Management System module shall provide for the following:

1. Monitoring compliance with the access regime for employees and visitors to the site via automated access control systems as well as their movements around the site, in accordance with their access levels.
2. Configuring the rights of users to edit and view departments and employees.
3. Creating and configuring access levels both for each employee individually and for entire departments.
4. Creating templates and stamps for electronic passes for employees and visitors to the guarded site.

Requirements for Photoidentification module

The Photoidentification module should provide for the following:

1. Displaying photos and information about user in the Photoidentification window while the access request.
2. Displaying image from camera in the Photoidentification window while the access request.
3. Possibility to create the template of the pass which is displayed in the Photoidentification window for each of readers.
4. Possibility to choose objects by events of which the displaying of Photoidentification window is performed.
5. Configuring actions available for operator in the Photoidentification window while the access request.
6. Maintaining, storing and displaying the operator action log.

Requirements for Virtual access server module

The Virtual access server is designed for creating virtual access points on base of recognized faces and vehicles license plates and combined working of *Auto-* and *Face-Intellect* software packages with the *Time and Attendance* module.

Systems connected by universal protocols

Operation of some systems is possible in the *Intellect* software package by universal integration modules (OPC Wrapper, BACnet Wrapper and SNMP Wrapper).

Systems which operation is guaranteed by *OPC Wrapper* universal integration are as follows:

Name	Functionality in the Intellect software package
Bosch (all devices works by the same OPC-server)	Monitoring, control (full list of supported states you can find here)
FSA SIEMENS Cerberus-PRO	<ul style="list-style-type: none"> • receive the current state of object; • reset the object in its default state; • arm/include the object in the controlled area; • disarm/exclude the object from the controlled area; • set the object in Test mode; • set the object in active state from quiet; • set the object in quiet state from active.
ACS Gallagher 6000	<ul style="list-style-type: none"> • receive events about passes; • door tampering; • exit by button.
MOXA cards (list of all cards which can be connected by the OPC-server is presented here)	<ul style="list-style-type: none"> • control relay depending on type of card; • receive the current state of connected sensors.

Systems which operation is guaranteed by *BACnet Wrapper* universal integration are as follows:

Name	Functionality in the Intellect software package
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Sterownik FSG	<ul style="list-style-type: none"> • open/close of fire dumper; • set the angle of fire dumper; • receive the current state of connected devices; • receive states of fire dumper (open, close, damage); • control program which control all fire dumpers in case of damage; • show temperatures inside the ventilation tunnels; • control smoke exhaust fan.
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Systems which operation is guaranteed by *SNMP Wrapper* universal integration are as follows:

Name	Functionality in the Intellect software package
AVTECH - Room Alert 24E- Alarm Switch	Monitoring of the following events: <ul style="list-style-type: none"> • Humidity is out-of-bounds; • Humidity is within borders; • Cabinet open; • Cabinet close; • Temp is out-of-bounds; • Temp is within bounds; • Power loss; • Power connected.
Axis A1001	Monitoring of the following events: <ul style="list-style-type: none"> • Cold start • Warm start • Link up • Authentication failed

Protection of universal integration modules

- *OPC Wrapper*: 1 IP-address. Several OPC servers can be in one IP-address.
- *BACnet Wrapper*: 1 device.
- *SNMP Wrapper*: 1 channel.

Integration with HID OMNIKEY control reader

Name	Manufacturer
HID OMNIKEY® 5321 CL SAM	HID Global 611 Center Ridge Drive Austin, TX 78753 U.S.A Тел: (949) 732-2000, (800) 237-7769 www.hidglobal.ru

Protection

Each control reader is protected by the same position: Intellect software package - Control reader for visitor management system.

Non supported integrations

Integration with Intrepid MicroPoint (up to 4 processing units)

Manufacturer	Southwest Microwave, Inc.9055 South McKemy StreetTempe, Arizona 85284 USA Telephone: +1 (480) 783-0201 Fax: +1 (480) 783-0401
Integration type	Low-level protocol
Equipment connection	RS-232

Supported equipment

Equipment	Function	Features
PM	Processing module	Number of zones: 2 Max.length of the zone: 200 meters Intrusion identification - within 3 meters Max.number of zones per system: 50 Max.number of fence zones: 50 Max.number of sensors : 60
LU/ILU	Link unit/Isolated link unit	PM combination (up to 8)
TU	Termination unit	Matching cable
RM	Relay module	Relays: 6 Inputs: 6 Max. Number of RMs per system: 20

Protection

1 COM port. Up to 4 processing modules (PM).

Integration with Intrepid MicroTrack (up to 4 processing units)

Manufacturer	Southwest Microwave, Inc.9055 South McKemy StreetTempe, Arizona 85284 USA Telephone: +1 (480) 783-0201 Fax: +1 (480) 783-0401
Integration type	Low-level protocol
Equipment connection	RS-232

Supported equipment

Equipment	Function	Features
MTP	MicroTrack Processor	Number of zones: 2 Max.length of the zone: 210 meters. Intrusion identification - within 3 meters
MTT	MicroTrack termination kit	Matching cable
MTI	MicroTrack in line termination	Matching cable
RCM	Relay control module	Number of relays: 8 Number of inputs: 8

Protection

1 COM port. Up to 4 processing modules (MTP).