THIS DOCUMENT IS FOR QUICK REFERENCE ONLY, REFER TO HARDWARE & SOFTWARE MANUALS FOR FULL DETAILS

Integra32 CD Folder Contents

Server : Installs Server and Client 1 PC only (Setup.exe)
Communications Modules : Drivers and utilities (LIF-200, etc.)
Documents : All manuals in PDF format
Client : Installs Client (Setup.exe)
Firmware: Various firmware files
Update: Service packs
Additional folders may appear on your CD:
License, Web, DVR, Fingerprint, Etc.
Adobe Acrobat Reader Included on CD

SERVER : PC Requirements

Processor : Intel Core 2 Duo or better
Memory : 1-2 GB depending on OS
Storage: 20 GB, or more is needed
CD-ROM, Ethernet Port, USB ports
Operating System : Windows
Editions : Pro, Business, Ultimate
32 Bit: XP SP3, Vista, 7
Server 2003, 2008
64 Bit: 7, Server 2008

CLIENT : PC requirements

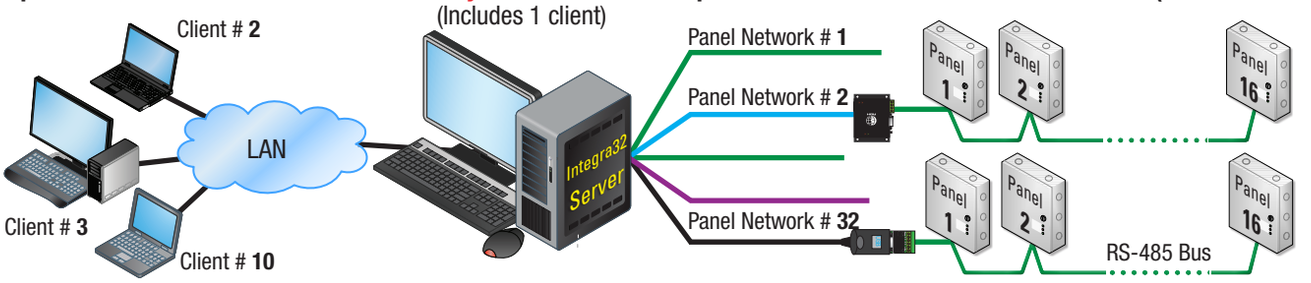
Processor : Intel Core 2 Duo or better
Memory : 1-2GB depending on OS
Storage: 5 GB, or more is needed
CD-ROM, Ethernet Port, 20 GB
Operating System : Windows
Editions : Pro, Business, Ultimate
32 Bit: XP SP3, Vista, 7; **64 Bit:** 7

OVERVIEW

Up to 9 simultaneous clients:

Only ONE Server!
(Includes 1 client)

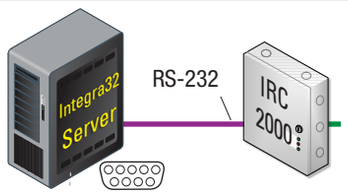
Up to 32 simultaneous connections to Server (Panel Networks)



Thin and Web clients are available for Internet connections

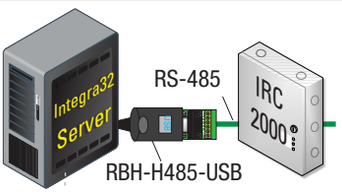
Up to 32 doors (16 of 2-door panels) per Panel Network

RS-232 : Serial Port to IRC-2000



Up to 50' Max @ 9.6K to IRC-2000 only
18-22 AWG 3-4 Cond. Shielded

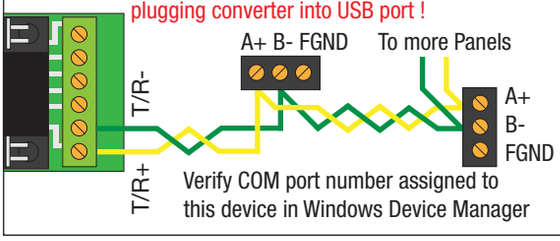
RS-485 : USB to IRC-2000



Up to 4,000' Max from PC to last Panel
18-22 AWG 2-Cond. Shielded, Twisted

RBH-H485-USB : Installation

Install driver from Integra32 CD ***before*** plugging converter into USB port !



Verify COM port number assigned to this device in Windows Device Manager

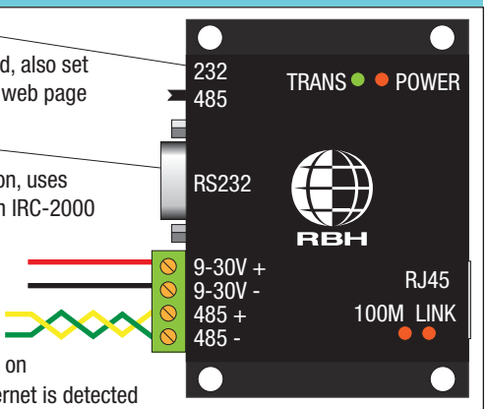
LIF-200 : Installation

RS-232 - RS-485 Selector
Set depending on interface used, also set same in the LIF's configuration web page

RS-232 to IRC Panel **ONLY!**
Alternative to RS-485 connection, uses built in RS232/485 converter on IRC-2000

12 VDC from IRC or URC Panel

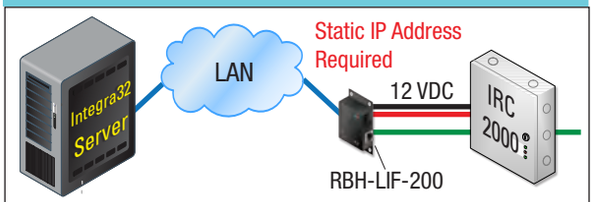
RS-485 to IRC or URC Panels



- **POWER LED:** On - powered on
- **100M LED:** On - 100M Ethernet is detected
- **LINK LED:** On - network connected
- **TRANS LED:** Blinks green - being polled by software, off when not; Provides blink status code immediately after power up.

Refer to LIF-200 manual for default password and reset procedures
Default IP address : 192.168.125.125 **Default IP port :** 3002

ETHERNET LAN : PC to Network to LIF-200 to IRC-2000



Up to 4,000' Max from LIF-200 to last Panel
18-22 AWG 2-Cond. Shielded, Twisted

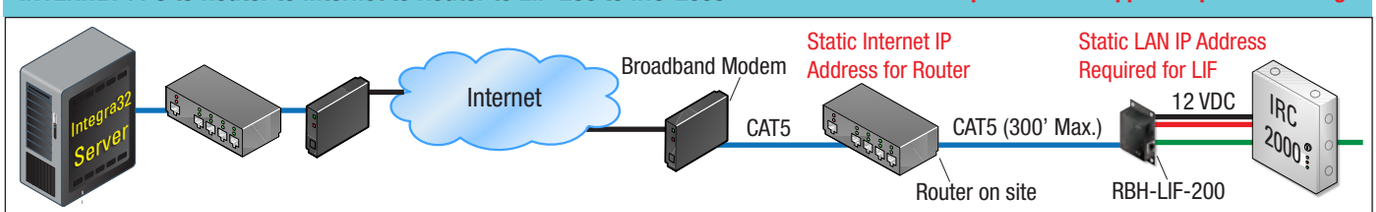
A. LIF-200 and PC are on the same subnet:
*LIF : XXX.XXX.**ZZZ**.AAA PC : XXX.XXX.**ZZZ**.BBB*
To configure LIF-200 type in it's address into web browser.

B. LIF -200 and PC are on the same net, different subnets:
*LIF : XXX.XXX.**ZZZ**.AAA PC : XXX.XXX.**YYY**.BBB*
Use IPLocator to detect LIF-200 and change it's IP address, go to **A**

C. LIF-200 and PC are on different nets and/or subnets:
Manually set your PCs IP address to match net/subnet of the LIF-200, go to **A** to configure LIF-200

INTERNET : PC to Router to Internet to Router to LIF-200 to IRC-2000

RBH does not provide tech support on port forwarding!



Port Forwarding - Configure Router to forward designated IP port on Internet IP address (as entered in Integra32) to a port on Local Network (LIF-200).
Example: In Integra32 software set 5.6.23.7 port 75. On remote router forward remote site port 75 on 5.6.23.7 to LIF-200 on port 3002 on 192.168.1.125

TIP: Use Windows built-in Telnet client to test communications with LIF-200 (you may need to enable it first in Windows Vista, 7)
This test verifies possibility of a successful connection from Integra32 Server PC to LIF-200: it checks if IP address exists and whether LIF is using right port
Example: at command prompt on Integra32 Server PC type in: telnet <LIF-200 IP address> <IP port to use> (c:\telnet 192.168.1.125 3002) hit "Enter".
If all is OK you will see blank screen with blinking cursor and "Trans" light on LIF will light up, if this does not happen contact IT staff for troubleshooting.

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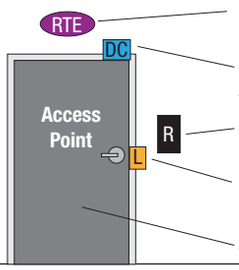
ACCESS POINT : Configuration



RTE : Request to Exit, typically motion detector, crash bar, exit button - Shunts door contact and unlocks door for exit
DC : Door Contact (a.k.a. door switch, DSM) - Monitors whether the door is opened or closed
Reader : Card, Fingerprint Reader with/or keypad with Wiegand Interface - Reads user credentials, PINs, etc.
Lock : Electric strike, lock set, magnetic lock or any eclectically actuated device - secures an access point
Access Point : Door, gate, turnstile, any point with secured access

RTE Installed	DC Installed	Lock by timer	Lock on door close	Door Forced	Door Held Open
Yes	Yes	Yes	Yes	Yes	Yes
No	Yes	Yes	Yes	No*	Yes
No	No	Yes	No	No	No

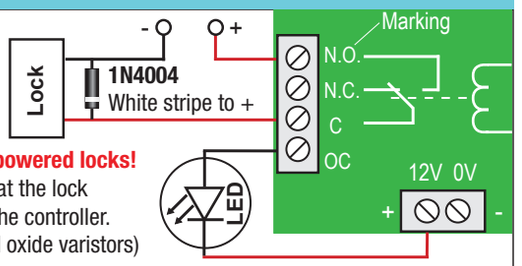
* Will activate every time door is opened to exit, you can turn “Disable Door Forced Open” feature on

OUTPUTS:

Relay Outputs (Marked ?N.O./?N.C./?C): Maximum rating 5A @ 30V, Dry, Form “C” relay
Voltage Outputs (Marked ?OC) : 100mA, -12VDC, for solid state devices only (LED, Piezo, etc.)

“ON State” Setting	Operation Type	“Output Off” Relay is:	“Output On” Relay is:	N.O. Mark	N.C. Mark
Energized	**Fail-Secure**	Off	On	N.O.	N.C.
De-energized	**Fail-Safe**	On	Off	N.C.*	N.O.*

* Functionality of relay polls will be reversed vs. printed marking



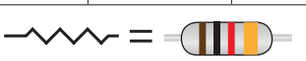
INSTALL DIODE on DC powered locks!
1N4004 Diode installed at the lock will prevent damage to the controller. Please, use MOVs (metal oxide varistors) for AC powered locks.

NO RELAYS OR LOCKS! on OC outputs

INPUTS:

Circuit Type	Normally Closed	Normally Open	N. C. 1 Resistor	N. O. 1 Resistor	N. C. 2 Resistors	N. O. 2 Resistors	N. C. & N.O. 1 Resistor
Open	Alarm	Restore	Alarm	Trouble	Trouble	Trouble	Trouble
Short	Restore	Alarm	Trouble	Alarm	Trouble	Trouble	Alarm
1K	N/A	N/A	Restore	Restore	Restore	Alarm	Restore
2K	N/A	N/A	N/A	N/A	Alarm	Restore	N/A
Circuit State		Default					

Supervision type	Detects state changes:	Supervised secure	Supervised in alarm
None	Yes	No	No.
1 Resistor	Yes	Yes	No
2 Resistor	Yes	Yes	Yes



1K Resistor Color code: Brown Black Red / Gold: 5% tolerance

RTE : to keep door unlocked we need re-triggering of RTE input (Each trigger extends unlock timer)
DC : N.O. sensors are wired in parallel, N.C. sensors in series
Wiring : Up tp 1,000’ on 18-22 AWG 2-Cond. cable

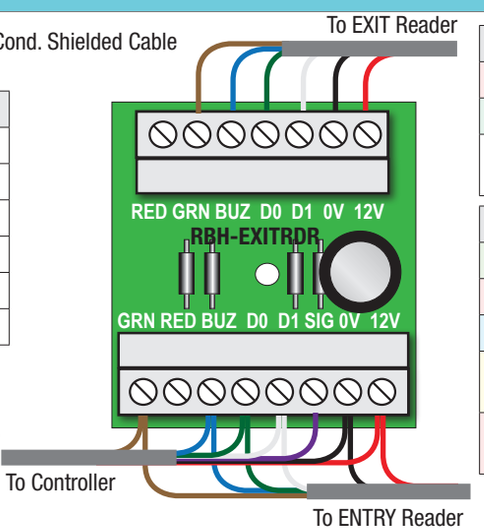
READERS:

Wiring : Up to 500’ Max from Reader to Panel on 18 AWG 6-Cond. Shielded Cable

Function	RBH	HID	AWID	Terminal
LED	Brown	Orange	Brown	**GRN**
Buzzer	Blue	Yellow	Yellow	**BUZ**
Data 0	Green	Green	Green	**D0**
Data 1	White	White	White	**D1**
Ground	Black	Black	Black	**0V**
Power	Red	Red	Red	**12V**

See reader manual for actual color codes!

EXITRDR : This module allows reporting of direction on doors with readers installed on both sides, while using a single reader port on the controller (RBH reader wiring shown)



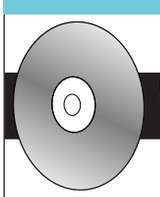
Reader LED	Status
Red	Locked
Green	Unlocked
Blinking	“High Security” mode

Reader Sounder	Event
Long Beep	Access Granted
Two short Beeps	Access Denied
Four Beeps	Mode Changed
Beeping	DHO Warning or PIN request
Continuously On	Door Forced or **D**oor **H**eld **O**pen Alarm

NOTE : System Data

Complete database is stored on the Server PC, cards and settings are transferred to the panel during the download. Panel retains this data and operates independently, sending events to Server and receiving commands from it. It is not possible to “upload” hardware configuration or card database from the panel. **Please configure Integra32 Server’s built in backup function to preserve your data in case of PC failure!**

Support



For Support in U.S. Call : **201-663-9070**

! All software and hardware manuals are included on **Integra32** software CD in “Documents” folder

Web site : www.rbh-access.com E-mail : support@rbh-access.com

Please read our manuals before contacting technical support!
To access help (software manual) in Integra32 software hit F1 key!

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DIP SWITCH SETTINGS : DIP-Switch: UP = ON / DOWN = OFF

Cycle power for DIP-switch changes to take effect!

Switch 8: Always OFF!

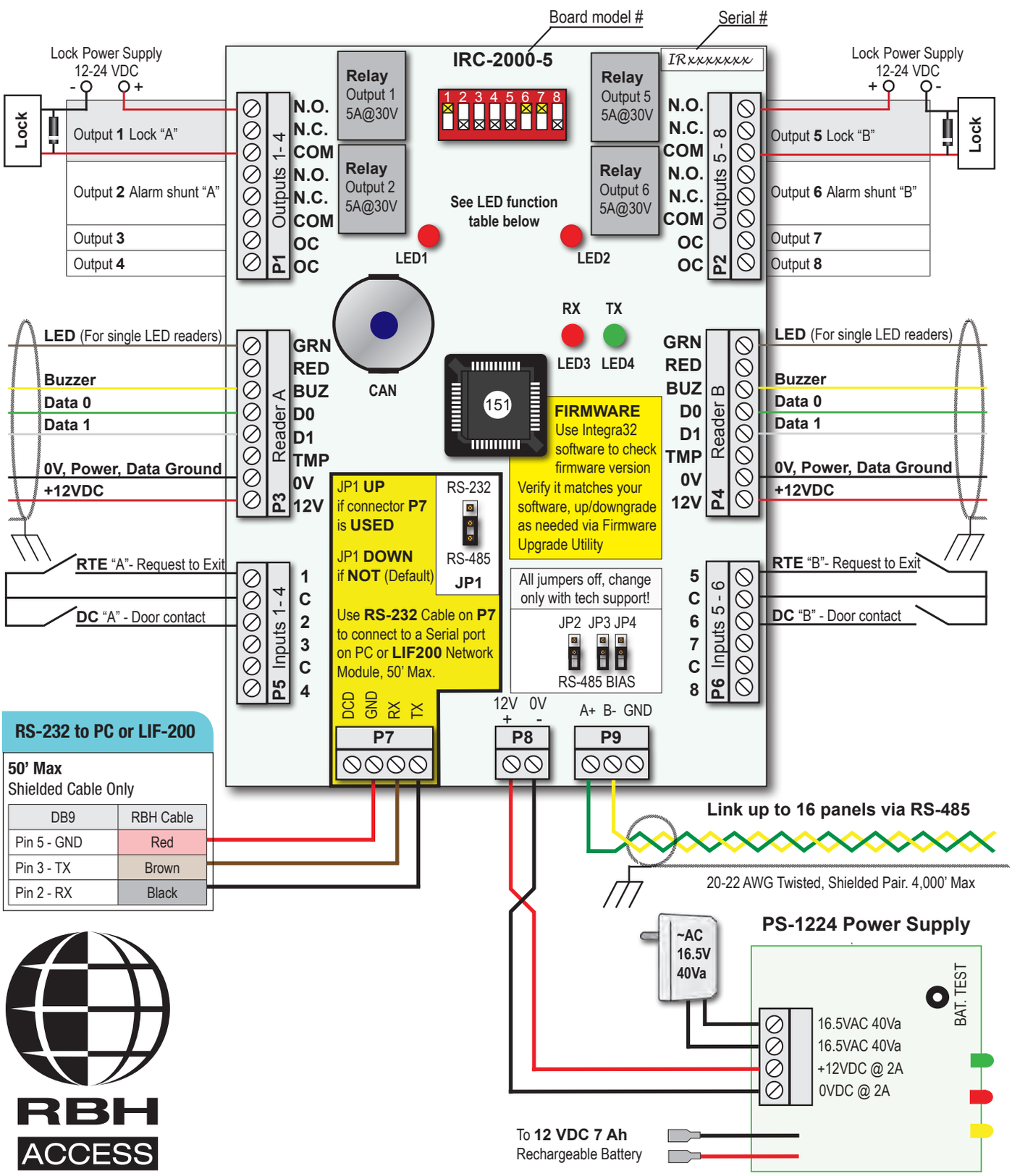
Switch	1	2	3	4	5
Panel **1**	On				
Panel **2**		On			
Panel **3**	On	On			
Panel **4**			On		

Switch	1	2	3	4	5
Panel **5**	On		On		
Panel **6**		On	On		
Panel **7**	On	On	On		
Panel **8**				On	

Switch	1	2	3	4	5
Panel **9**	On			On	
Panel **10**		On		On	
Panel **11**	On	On		On	
Panel **12**			On	On	

Switch	1	2	3	4	5
Panel **13**	On		On	On	
Panel **14**		On	On	On	
Panel **15**	On	On	On	On	
Panel **16**					On

Switch	6	7
9.6 K		
19.2 K	On	
38.4 K		On
56 K	On	On



RS-232 to PC or LIF-200

50' Max
Shielded Cable Only

DB9	RBH Cable
Pin 5 - GND	Red
Pin 3 - TX	Brown
Pin 2 - RX	Black

RBH ACCESS

Panel LEDs

Panel LEDs	LED1 (Red)	LED2 (Red)	LED3 (Red)	LED4 (Green)
FUNCTION	Door forced	Host	Receive	Transmit
OFF	No	Power is off	Host not polling	Panel not responding
ON SOLID	Yes	Online	Malfunction	Malfunction
BLINKING	Card read	Offline	Receiving	Transmitting

Power Supply (PS-1224) LEDs

Press "BAT. TEST" button on PS-1224 for battery test, Yellow LED will go ON if test failed

LED	On	Off
Green LED	Power On	Power Off
Red LED	Shorted	OK
Yellow LED	Battery Fail	Battery OK