



Incomlink | INC-3URX-256

Programming Manual



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1. INTRODUCTION

Thank you for choosing our product. This modern and reliable monitoring receiver not only guarantees the highest level of **security**, but also it is a useful colleague in the life of every monitoring company, because of its **user-friendly** handling and **intelligent functions**.

To use the highest range of provided functions **please read** carefully the *Programming Manual*.

For the confident programming and secure usage please keep all warnings in *Installer Manual*, with highly focusing to security directions.

2. SYSTEM STRUCTURE

INC-3URX-256 monitoring receiver provides complex and reliable solution to build up a modern monitoring station. The device can receive signals from alarm control panels through IP network, telephone line and radio channel. Due to the universal operation, the device can receive all standard (and most of the non-standard) signals from alarm control panels and communicators. With combination of an appropriate PC-based monitoring software it guarantees not only reliable signal transmission, but also easy to use operator interface. The system consists of the following devices:

2.1 CPM card

Central processing card (CPM) which controls the operation of the receiver. CPM contains two serial ports (respectively 2 high speed USB ports), one Ethernet port and one parallel printer port. CPM card can store up to 2000 events in its non-volatile memory. If the connection fails with monitoring computer, the receiver stores events in its own memory, and all events will be sent automatically when the connection is restored. CPM controls the graphical LCD display as well, where received events can be seen and basic settings can be done.

2.2 LC telephone line card (optional)

Receiver has 8 slots to connect LC telephone line cards. LC line cards can monitor one telephone line. Each telephone line card have memory to store up to 500 events or caller ID. Caller ID function is built in, the caller telephone number is stored and can be transmitted to monitoring computer. Line cards support two-way audio communication also. Line cards are continuously monitored by CPM. All line card troubles are displayed immediately at LCD display, and transmitted to monitoring computer. The line card monitors the connection with CPM as well, if it detects trouble automatically switches to standalone operation mode. In this case it continues event receiving, but stores them in its own memory. All received events will be sent automatically to CPM when the connection is restored.

2.3 RC radio receiver card (optional)

The optional RC radio receiver card works as a special line card in the system – it provides event receiving through UHF radio (440..450MHz). RC card can handle two independent radio channels, which are displayed as line card “A” and “B” in the system. Event management and CPM monitoring way is similar to LC line cards. In standalone mode the RC card can store up to 500 events, which will be sent automatically to CPM when the connection is restored.

2.4 PWR power supply card

PWR power supply card ensures voltage for all cards in the system. The input of PWR requires 16.5 VAC / 18 VDC, which is generated by an external transformer unit / power supply unit. PWR has got battery charging circuit, batteries can be connected to external connectors. In case of main power trouble battery powered operation is switched automatically. The capacity of batteries should be between 7 Ah and 15 Ah. The PWR continuously check the state of main power and batteries, and it reports the status to CPM unit.

2.5 IP card (optional)

Receiver has 8 slots to connect IP Ethernet based receiver cards. IP cards can work in standalone mode, they control individually the incoming events through Ethernet line. Then they forward the events to central processing unit of main receiver through internal receiver bus. By means of IP cards gives extended range in IP receiving functions (comparing to CPM card in base receiver unit). Additionally it provides possibility to connect the system to a secondary Internet provider.

2.6 Monitoring software compatibility

The device can work with the most generally used monitoring software packages.

During development the receiver has been tested with the following monitoring software packages:

The device can work with the most generally used monitoring software packages.

SURGARD receiver type should be selected as receiver type.

3. SYSTEM PROGRAMMING FROM RECEIVER MENU

After completing instructions from *Installer Manual* it is time to start INC-3URX-256 monitoring receiver programming. The main settings can be done through the receiver menu displayed on LCD.

The starting display, LED signals of monitoring receiver, and the functions without user code are shown in *User Manual*.

				09:17:46	
ACCOUNT	EVENT	LINE		TIME	
5451	CLOSING	01 001	IP	11:35:37	
5451	BURGLARY	01 005	IP	11:45:22	
5451	ZONE RESTORE	01 005	IP	11:45:24	
5451	OPENING	01 001	IP	11:50:39	
5451	CANCEL	01 001	IP	11:50:40	
FONT		CODES		UTIL	
SETUP					
F1	F2	F3	F4		

After turning on the receiver and system boot the display above is shown on LCD screen. F1 – F4 buttons (there is the assigned function above each button) can be used for navigation in menu, and they can be used also to execute functions which are protected with password (and not mentioned in *User Manual*).

Note: After the first start of the device it is always recommended to apply default settings: F3 (UTIL) / F3 (RESET) / F1 (DEFAULT).

Default password for menu access: **AHOV**

Note: It is strongly recommended to change default password with *Terminal* software.

CONSOLE		VER: CPM2.60.BC06	
ENTER PASSWORD			
[*]			
ABCDEFG	HIJKLMN	OPQRSTU	VWXYZ_ -
F1	F2	F3	F4

Code entering is possible by choosing characters with F1 – F4 buttons (more pushes of one button can be used to change character, backspace is with ◀ button, code apply with ENTER button, exit with DISPLAY button). After code entering it is allowed to enter into receiver menu (without entering the code again) for 3 minutes since the last button pushing .

3.1 F3 (UTIL) menu

REPORT	PRINT	RESET	BACK
F1	F2	F3	F4

F1 (REPORT)

To resend receiver memory stored events to monitoring software.

F1 (LAST 50) – To resend last 50 events to monitoring software.

F2 (TODAY) – To resend all events from the last day to monitoring software.

F3 (ALL) – To resend all receiver events to monitoring software.

F2 (PRINT)

If printer is connected, events stored in receiver memory can be printed.

F1 (LAST 50) – To print last 50 events.

F2 (TODAY) – To print all events from the last day.

F3 (ALL) – To print all receiver events.

F3 (RESET)

Different level resets of the receiver unit.

F1 (DEFAULT) – This function is to delete full event memory and set all settings back to default value.

F2 (MEMORY) – This function is to delete full event memory, then receiver restart.

F3 (RESET) – Receiver restart without deleting any events / settings.

F4 (BACK)

Navigation back with one menu level in receiver menu.

3.2 F4 (SETUP) menu

OPTIONS	PORTS	TIME	BACK
F1	F2	F3	F4

F1 (OPTIONS)

CONSOLE		VER: CPM2.60.BC06	
CPM OPTIONS			
BUZZER OPERATE		YES	
+	-	PAGE	CANCEL
F1	F2	F3	F4

First choose the option to configure with ◀ and ▶ buttons (chosen value is blinking). For changing the value you can use F1 (+) and F2 (-) buttons. You can apply settings with ENTER button.

It is recommended to modify the following settings only:

- BUZZER OPERATE

YES – INC-3URX-256 buzzer is on, you can hear buzzer sound if there is new event until manual acknowledge (pushing ENTER button) / monitoring software acknowledge.

NO – INC-3URX-256 buzzer is off, there is no buzzer signal in case of unacknowledged event.

F2 (PORTS) / F1 (COM A) or F2 (COM B)

CONSOLE		VER: CPM2.60.BC06	
SERIAL PORT A			
OPERATION MODE	NORMAL		
RECEIVER ID	01		
PORT SETTING	9600, 8, NONE		
+	-	PAGE	CANCEL
F1	F2	F3	F4

It is recommended to modify the following settings only:

- OPERATION MODE

NORMAL – INC-3URX-256 forwards data on the given port towards monitoring software (default port for PC connection).

RECEIVE – INC-3URX-256 can only receive data on the given port (this port is to connect another receiver to INC-3URX-256, or for reserve port).

Note: COM A and USB A ports are equivalent, as the COM B and USB B ports. Do not connect devices at the same time to COM A and USB A ports. If it is possible, always recommended to use COM A as against USB A.

Note: If the A serial port of the receiver has any trouble, B port can work as a replacement. For this switch on OPERATION MODE to RECEIVE on port A, and to NORMAL on port B. Please connect PC connector from port A to port B.

- RECEIVER ID

The option has importance when there are more receivers connected to the same monitoring software. If each receiver has different number, in event list it can be seen which receiver sent the given event.

- PORT SETTING

You can check the actual serial port settings in this menu. Default values: 9600 (speed), 8, NONE (Data Bits & Parity)

F2 (PORTS) / F3 (TCP/IP)

In this menu you can configure the main monitoring receiver IP parameters and settings.

Note: After changing all kind of IP parameters please always restart the receiver unit (if restart doesn't happen automatically. For this exit the menu, then F3 (UTIL) / F3 (RESET) / F3 (RESET).

CONSOLE		VER: CPM2.60.BC06	
TCP/IP OPTIONS			
IP ADDRESS	192 168 001 240		
NETMASK	255 255 255 000		
GATEWAY	000 000 000 000		
RECEIVE PORT	270F (09999)		
PROGRAM PORT	0017 (00023)		
IP MONITORING	OFF	TEST FILTER	OFF
MONITOR PERIOD	05A0 (01440)		
CID TEST EVENT	16A3		
WEB HTTP PORT	0050 (00080)	LINES	024
WEB PASSWORD	NO		
+	-	PAGE	CANCEL
F1	F2	F3	F4

It is recommended to modify the following settings only:

- IP ADDRESS

Here you can define the INC-3URX-256 unit private (internal) IP address in local area network. Take care to not use address which is used by another device, or which can be given by DHCP service.

- NETMASK

The used subnet mask in local area network.

- GATEWAY

This address is required if the device optionally wants to realize external communication (for example for WAN Test). Most of the times the gateway address is the same as router private (internal) address in local area network.

- RECEIVE PORT (hexadecimal)

The port can be defined where IP based (IP, GPRS) messages are coming to the monitoring station. Configuration is in hexadecimal mode, but in brackets the decimal port number also can be seen.

- PROGRAM PORT (hexadecimal)

The port can be defined where receiver remote programming (through Internet) is possible. Configuration is in hexadecimal mode, but in brackets the decimal port number also can be seen.

Note: For the operation of remote programming the IP ADDRESS and PROGRAM PORT should be enabled in router as well (Port Forward / Virtual Server / NAT in router menu).

- IP MONITORING

If this option is enabled, the first 255 (from receiver startup) user accounts received through IP channel will be monitored. If there is no event with the given user account through IP line until the MONITOR PERIOD, the receiver will generate IP Communication Error message with the given client account.

- TEST FILTER

If IP MONITORING is enabled, this option can be used to filter test code by the receiver. The defined event codes in CID TEST EVENT menus will be filtered, the first test event after midnight / receiver start (for each user accounts) is always displayed.

- MONITORING PERIOD

The time period can be defined within the receiver wait IP communication for the first 255 user accounts. If there is no event with the given user account through IP line until this period, the receiver will generate IP Communication Error message with the given client account.

- CID TEST EVENT

The test event code can be defined for CID communication. '0' character is displayed as 'A' character.

- WEB HTTP PORT (hexadecimal)

The device provides access for event list review through web browser. For this function this port should be configured. If you use different port as default 80, for view event list you should type the port as well after the IP address / domain name.

Note: For the operation of event list review through web browser the IP ADDRESS and WEB HTTP PORT should be enabled in router as well (Port Forward / Virtual Server / NAT in router menu).

Note: It is recommended to Internet Explorer 8 or higher for event list review.

Note: Do not use ports which might be used by another device (for example: 110 port).

- LINES

When you use web browser to event list review, here can you define that how many events are displayed in one page.

- WEB PASSWORD

NO – No password is required for event list review in web browser.

YES – Password is required for event list review in web browser.



Note: After changing all kind of IP parameters please always restart the receiver unit. For this exit the menu, then F3 (UTIL) / F3 (RESET) / F3 (RESET).

F3 (TIME)

Date and time setting (function without password), details in *User Manual*.

F4 (BACK)

Navigation back with one menu level in receiver menu.

3.3 IP communication status menu

From event list display it is possible to switch to IP communication status menu with long DISPLAY button push (3 seconds). Lots of IP communication related function can be checked here. During menu access DISPLAY LED is flashing.

CONSOLE		VER: CPM2.60.BC06	
CPM STATUS			
IP : ON (FC4)	192 . 168 . 000 . 240	09999	
SCK : 001/255	255 . 255 . 255 . 000	00023	
TCM : 004/255	192 . 168 . 000 . 001	00080	
	081 . 182 . 170 . 247	OK	
<hr/>			
5451 UPDATE 00005	14AA	..	
5451 UPDATE 00005	16A2	x.	

The following data can be seen: Receiver LAN IP address – Receive port; Netmask – Remote programming port; Gateway – Web browser access port; Public IP – WAN monitoring status. SCK = Opened sockets number, TCM = IP monitored device number. In appearing events first digits are the client account (5451), then the IP monitoring period (00005), and at the end there is the event code (14AA).

3.4 DISPLAY – card programming and status checking

After pushing the DISPLAY button (DISPLAY LED lights continuously) you can enter into the following window:

CARDS		RADIO		16:48:17	
1 OK		A OK			
2 OK		I [REDACTED]			
3 ----		B ----			
4 ----		I			
5 ----		USB A OK	COM-B R		
6 ----		LPT —	IPLINK OK		
7 ----		AC OK	BATTERY OK		
8 ----					
1 : OK					
MON OFF		SETUP		STATUS	
F1		F2		F3	
				HANG UP	
				F4	

CARDS – Telephone line cards / IP cards status

READY – Telephone line card / IP card is OK.

RING – Ring on telephone line card.

INCOMING CALL – Telephone line card received the incoming call (incoming event codes can be seen).

TEL LINE ERROR – Card is OK, but line has trouble.

ID: xxx – Call is from xxx phone number.

RADIO – Radio receiver card status

OK – Radio receiver card OK (signal level scale below).

Event codes can be seen during radio receiving, received signal strength in brackets (7 – minimum, F – excellent).

F1 (MON ON / OFF) – Speaker On / Off.

F3 (STATUS) – Card status (and firmware version checking, RESET button for card restart).

F4 (HANG UP) – To abort stucked phone call.

3.5 DISPLAY / CARDS – telephone line card programming

After DISPLAY button push (DISPLAY LED is steady) and choosing telephone line card (CARDS 1 – 8) it is possible to enter the chosen telephone line card settings menu with F2 (SETUP) button.

CONSOLE		VER: CPM2.60.BC06	
CARD 1 OPTIONS			
HSK LENGTH	120		
CALLER ID	ENABLE		
+	-	PAGE	CANCEL
F1	F2	F3	F4

It is recommended to modify the following settings only (if it is necessary):

- HSK LENGTH

Here you can change the Handshake and Kissoff length of line card.

- CALLER ID

ENABLE – The telephone numbers of the call to the given line card appears on LCD display of INC-3URX-256 unit (if telephone number sending is enabled at service provider and 'Caller ID Message' is enabled in INC-3URX-256 unit).

DISABLE – Telephone numbers from the given line card are not shown on INC-3URX-256.

Note: Function might be useful for debugging during communicator connecting to monitoring station, as the phone number is displayed in case of bad communication format too.

Note: Before changing HSK SEQUENCE / TIMING always consult with your distributor.

Note: After choosing the telephone line card (CARDS 1 – 8), with F3 (STATUS) button you can check the firmware version of the line card (for example: LC-2.20.BA14).

3.6 DISPLAY / RADIO – radio receiver card programming

After DISPLAY button push (DISPLAY LED is steady) and choosing any of the radio channels (RADIO A – B) it is possible to enter the radio receiver card settings menu with F2 (SETUP) button.

CONSOLE		VER: CPM2.60.BC06	
CARD R OPTIONS			
A-CHANNEL	RECEIVER		
- CONFIGURATION	RECEIVER	1-WAY	SAME
- HOME SYSTEMS	01 01 01 01 01 01 01 01		
- SWR DISPLAY	18 40 90		
B-CHANNEL	DISABLE		
- CONFIGURATION	RECEIVER	1-WAY	SAME
- HOME SYSTEMS	01 01 01 01 01 01 01 01		
- SWR DISPLAY	18 40 90		
REPEATER ID	1F40		
+	-	PAGE	CANCEL
F1	F2	F3	F4

It is recommended to modify the following settings only (if it is necessary):

- A / B CHANNEL

ENABLE – Radio channel can be used for radio receiving.

DISABLE – Radio channel can not be used for radio receiving.

Note: By default channel A contains the built in radio receiver unit, channel B works only if you connect an external radio to that.

- HOME SYSTEMS (hexadecimal)

Here you can define that which radio transmitter identifiers are received by the radio channel. There are 8 different identifiers to set.

Note: If you type 00 identifier to any of the positions, the radio receiver doesn't filter the incoming radio transmitter IDs, it receives all of them.

- SWR DISPLAY (hexadecimal)

If the speaker is on in receiver settings, the second number means here the minimum value of displayed radio signal level by the speaker. Only higher radio signals are displayed by sound. First (min.) and (max.) numbers to configure the signal scale.

Note: With higher second (middle) value you can filter continuous lower radio noises, only real incoming radio events activates speaker.

Note: After changing radio receiver card parameters please always restart the receiver unit. For this exit the menu, then F3 (UTIL) / F3 (RESET) / F3 (RESET).

Note: If you want to use more complex radio system (repeaters, more radio receiver units, two-way communication, etc.) please consult with your distributor.

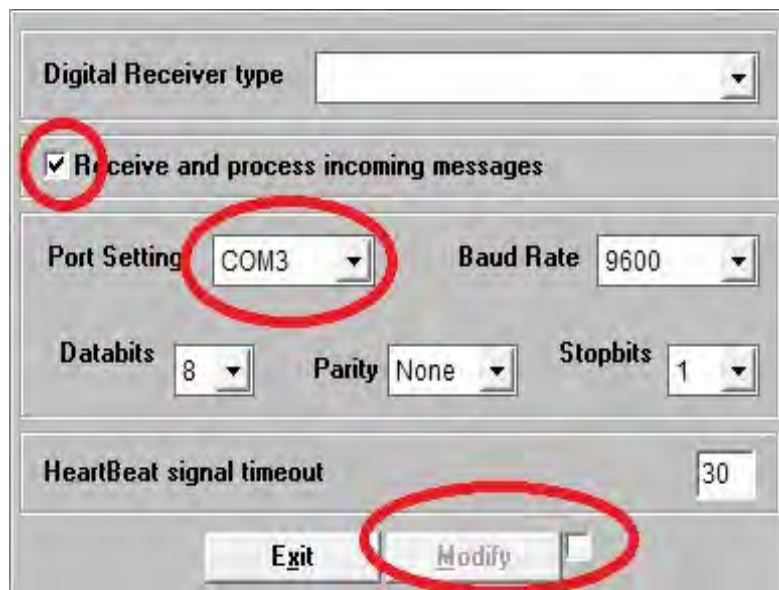
Note: After choosing the radio receiver card (RADIO A – B), with F3 (STATUS) button you can check the firmware version of the radio card (for example: RCM2.11.B223).

4. SYSTEM PROGRAMMING WITH PC SOFTWARE

To use the monitoring receiver with monitoring PC connect the COM A (USB A) port to the serial port of the monitoring PC (USB connector). Driver installation is automatic (from Windows 7). After this the appropriate monitoring software settings should be done (it means usually the serial port settings).

The process is the following in Incomlink monitoring software:

Start *Alarm Start* software → Start *Alarm Setup* and log in (ID: 1, Password: 1) → Setup menu → Hardware Setup → Digital Receiver #1.



In pop-up window basically only *Receive and process incoming messages* option should be enabled, then set the proper COM port (checking in Windows OS: *Control Panel / Hardware / Device Manager*), then apply changes. After this the COM ERROR should be restored in monitoring receiver, and receiver events are displayed on monitoring software screen.

Note: If you need direct connection of IP card to monitoring software (through USB connector of the card) set Baud Rate value to 57600 in monitoring software settings.

In normal case programming of the monitoring receiver unit can be done in serial port (any of the COM ports or USB ports). After completing appropriate IP settings programming can be done through Ethernet network as well. Please use *Terminal* software for programming. The programming steps are bellow:

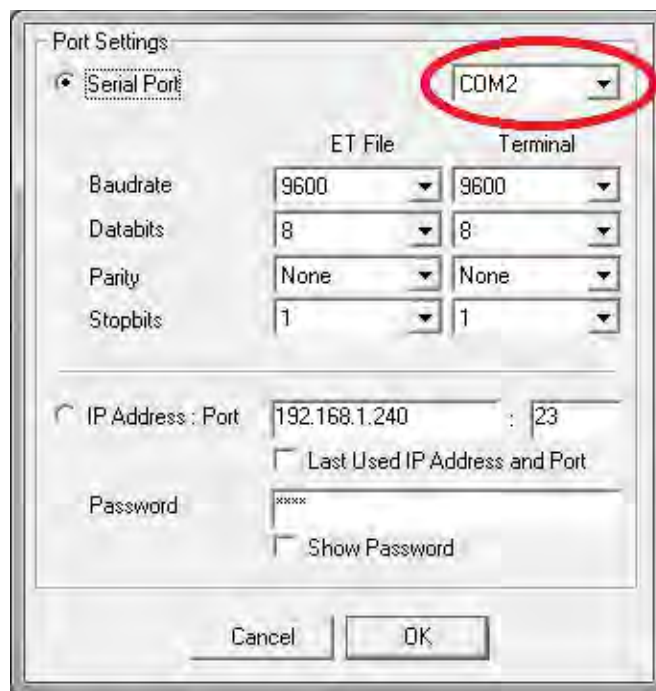
1. Please start *Terminal* software.

Note: PC programming provides access for all system parameter settings.

2. Choose the ET (settings) file according to the device what you want to program:

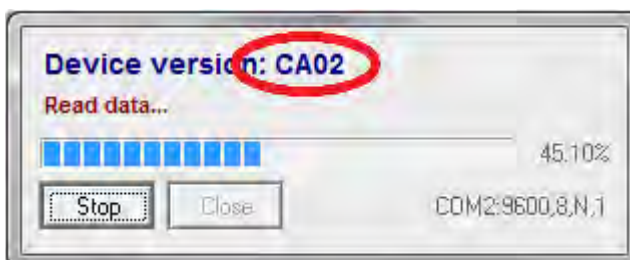
- CPM.et – CPM (receiver) programming
- LC.et – LC (telephone line card) programming
- RC.et – RC (radio receiver card) programming
- IP.et – IP Ethernet receiver card programming

3. In Communication / Port Settings menu set the communication port / IP address for programming.



4. With *Communication / Read Data* menu you can read stored settings from receiver.

Note: Before reading LC telephone line card data, you should select number of the line card in the pop-up window.



The highlighted firmware version means the following (hexadecimal format):

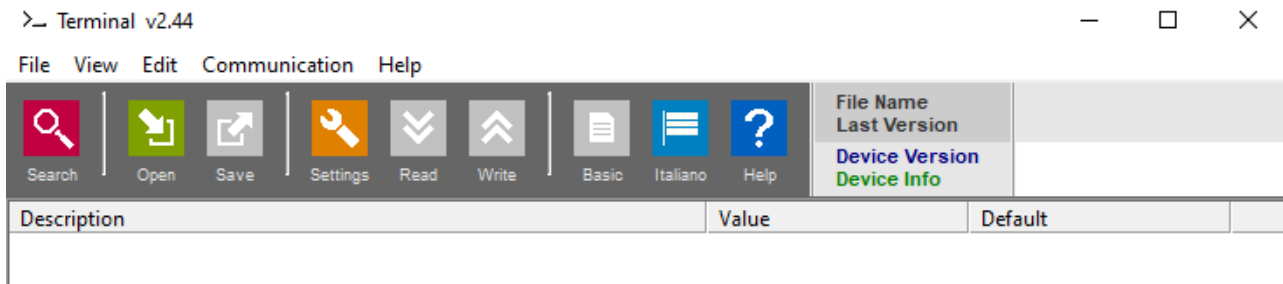
C – 12 (2012)

A – 10 (October)

02 – 2 (Second day)

5. Please execute the required settings in *Terminal* software.

Note: The software functions are shown in *Terminal* help menu.



6. Click to *Communication / Write Data* menu to send the modified settings to receiver.

Note: Before reading LC telephone line card data, you should select number of the line card in the pop-up window.

Note: During data reading (and sending) CPM firmware version can be checked.

5. TROUBLESHOOTING

TROUBLE: Any abnormal operation in functions during the usage of the device.

SOLUTION: Firmware upgrade with the newest firmware file usually solve these kind of problems (see *Firmware update* part in manual).

TROUBLE: Receiver unit restarts or freezes without any reason when touching device housing or LCD display, or when push any receiver button.

SOLUTION: Receiver grounding is not connected (properly), so the electrostatic charges causes these problems. Use the device only with appropriate grounding. Usage without grounding may cause the device and it is not warranty problem.

TROUBLE: No connection between monitoring PC and receiver unit (COM ERROR).

SOLUTION: Check the cable plugging in PC side and in receiver side as well. In monitoring PC *Control Panel / Hardware / Device Manager* application you can check which COM port appears / disappears in device list during plug / unplug INC-3URX-2756 cable. Please check whether COM port setting is correct in monitoring software.

TROUBLE: After proper IP configuration receiver events are not coming through IP.

SOLUTION: Don't forget to allow used ports in router (Port forward menu in router).

TROUBLE: Event names are missing, or not correct in receiver display.

SOLUTION: Because of the new functions there might be new menus and events in receiver, so receiver language should be updated regularly (see *Firmware upgrade*).

TROUBLE: There are strange internal messages in receiver with 0000 client account.

SOLUTION: It is possible that any of the external device (alarm control panel) has 0000 client account. Never use 0000 client account in alarm control panel side.

TROUBLE: There is *Fault call on telephone line card* message on display.

SOLUTION: Basically it is not error, it means only that the format of communication has some problem at alarm control panel side, INC-3URX-2756 can't understand properly. By means of proper communication format the problem is solved. If the alarm control panel can't use appropriate communication (especially with old panels), please consult with your distributor about modifying receiver handshake settings.

TROUBLE: Wrong received events data.

SOLUTION: If the telephone line has lots of noises, or low level (for example: GSM), it may occur. The receiver converts all 'A' hexadecimal character to '0' character.

TROUBLE: No event comes through radio channel to radio receiver card.

SOLUTION: Check that the receiver ID used in radio transmitter is suitable for the receiver identifier settings in INC-3URX-2756 RC card.

TROUBLE: The receiver unit freezes because of any external reason.

SOLUTION: With F3 (UTIL) / F3 (RESET) / F3 (RESET) buttons there might be software restart, if it is not working restart with hardware reset button (backside).

TROUBLE: The receiver sends events continuously to PC software without any reason.

SOLUTION: Memory reset of the receiver should solve the problem with F3 (UTIL) / F3 (RESET) / F2 (MEMORY) buttons.

6. INC-3URX-256 TESTING

When all setting is finished it is possible to test INC-3URX-256 unit. Testing is also useful to test data sending from an external installation place. The testing software in the given local network can help a lot to check monitoring transmission and find the reason of possible problems. For test please use ipt.exe software in the following way:



1. Enter the *IP address* or *Domain name* of the monitoring station.
2. Set the ports for communication with monitoring station (*Receive Port* = Monitoring transmission port; *Shell (Telnet) Port* = Remote programming port; *Web Server Port* = Event list access through web browser port).
3. After click to Test button it can be seen that test is successful (PASS) or not (FAIL).
4. If you want you can change the program settings in *Options* part:
 - *Enable TCP Test Report* = TCP connection test with test message;
 - *Enable UDP Test Report* = UDP connection with test message;
 - *Invisible TCP/UDP Test* = Test message can't be seen on receiver;
 - *Enable AES Crypted Test Report / AES Key* = Test of AES encryption function.

Received events in INC-3URX-256 can be checked easily with a simple web browser access. For this IP address (and port if it is different from 80) of INC-3URX-256 unit should be typed in a web browser (Internet Explorer recommended). Then all received events from receiver memory can be seen.

Note: For the operation of event list review through web browser the IP ADDRESS and HTTP PORT should be enabled in router as well.

Note: Web browser access function usage is described deeply in receiver TCP/IP port settings in this manual.

You should see a similar window (with refresh and page up/down) in web browser:

Event Log		ID: All	2012/03/28 15:36:06	
Memory	Account	Event	Line	Date&Time
2220	9999	User Close 02 001	1	2012/03/28 15:36:03
2200	9999	User Close 01 001	1	2012/03/28 15:35:59
21E0	9999	User Open 02 001	1	2012/03/28 15:35:56
21C0	9999	Recent Close 02 000	1	2012/03/28 15:35:52
21A0	9999	User Open 01 001	1	2012/03/28 15:35:48
2180	5451	Comm Restore 00 001	1	2012/03/28 15:23:44
2160	5451	Opening 03 001	1	2012/03/28 15:23:41
2140	5451	Opening 02 001	1	2012/03/28 15:23:38
2120	5451	Opening 01 001	1	2012/03/28 15:23:34
2100	5451	Closing 03 001	1	2012/03/28 15:23:31
20E0	5451	Closing 02 001	1	2012/03/28 15:23:28
20C0	5451	Closing 01 001	1	2012/03/28 15:23:25

Refresh < Page 1 >

Note: If you type in web browser the `/list.php?a=1234` command after the receiver IP address, only the events with the given user account can be seen in the list (in this case 1234 user account). For example: 74.125.232.210:8800/list.php?a=54A5 (it means only 5405 user account events appear in the list).

Note: Always use 'A' digits instead of '0' digits in client account.

Note.: The status and event list of IP Ethernet receiver card can also be checked through web browser after typing the IP address of the card.

7. FIRMWARE UPGRADE AND OTHER FUNCTIONS

It is recommended to upgrade regularly CPM card (basically the receiver itself) firmware, LC card (telephone line receiving unit), IP card (IP extension card) and RC card (radio receiver unit) firmware to use new functions and eliminate possible bugs.

Firmware upgrade can be done by the following steps:

1. Get the latest firmware files from your distributor (CPM / LC / IP / RC).
2. Save settings from the card (CPM / LC / IP / RC) planned to update with *Terminal software* (please check 4. *System programming with PC software* chapter). Please close monitoring software if it is running.
3. Start *INC-3URX-256 Uploader* program for firmware upgrade.

Receiver Uploader v1.43 (COM1:9600,8,n,1) - OK

Please read and save device parameters before start programming!

1. Step Select programming type and load file Programming via CPM (COM,USB) <input type="radio"/> CPM (COM-A,USB-A) <input type="radio"/> CPM Data <input type="radio"/> LC - Tel. Line Card Direct Card Programming <input type="radio"/> IP Card (USB)	2. Step Connect Serial or USB Cable 3. Step Select PC com port [] [9600] <input checked="" type="radio"/> Maximum speed <input type="radio"/> Selected speed (without checking) 4. Step Check available line cards 5. Step Select line card [No Line Card] 6. Step Start programming
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File Name	File Version
Device Version	
<input type="text"/>	

Exit Help Magyar New << Back Next >>

4. Choose item for upgrade (1. STEP), then NEXT.

CPM – CPM card (cpm.bot) programming;

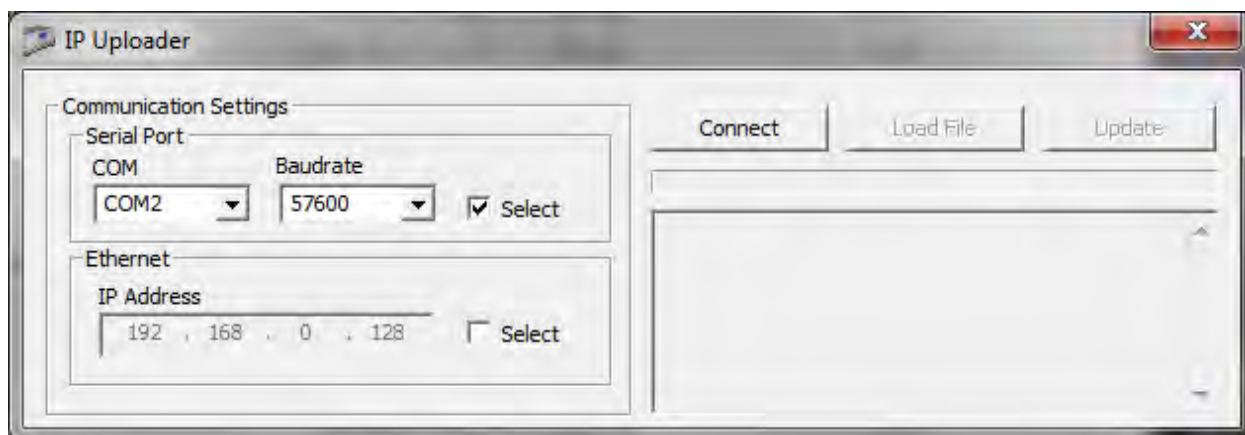
CPM Data – Receiver menu language (cpm.bin) / Web browser menu (cpm.dat) / Web logo (.jpg) update;

LC Tel. Line Card – Telephone line card (lc.bot) upgrade;

IP Card (USB) – IP extension card (ip.ipx) upgrade – Not possible through CPM!

RC, LRR2 – Radio Card – Radio repeater device firmware upgrade.

5. The following window will pop up if you use IP Card update.



6. Choose the proper firmware file for upgrade (2. STEP), then NEXT.

Note: In case of IP card you should select ip.ipx firmware file in *Connect / Load File* menu.

7. Choose the COM port where receiver is connected (3. STEP), then NEXT.

Note: The baudrate should be set to 57600 in case of IP card update. IP card update through Ethernet is only possible through local network.

Note: Line card update should be done separately for each line card, after choosing the line card number for upgrade.

8. Upgrade process can be started with *START* button.

9. Do not forget to send back the saved card (CPM / LC / IP / RC) settings at the end of the upgrade (please check 4. *System programming with PC software* chapter).

10. To use new functions it might be required to get the latest *Terminal* software with the newest ET (setup) files – please download and use newest version.

Note: If there is any problem during *CPM* firmware update (current blackout, cable remove, other), repeat the upgrade steps from 3. point (start *INC-3URX-256 Uploader*). If there is any problem during update steps, you can try the following:

- After choosing COM port (6. point, 3. STEP) choose the *Selected Speed (Without checking)* option, and set speed to 57600.
- Turn off the power supply of *INC-3URX-256* unit.
- Turn on the AC supply of *INC-3URX-256* unit, then immediately click to *START* button for firmware upgrade start.

Event list and menu names in *INC-3URX-256* unit also can be updated. For this after starting *INC-3URX-256 Uploader* program, please choose *CPM Data* function, then choose the latest language file from distributor (for example: *cpm250_EBA14.bin* file) for upgrade language.

Note: For individual text of events use *Terminal* software / *Codetable.et* files.

When web browser is used for event list review, it is possible to put the company logo to the web browser site. For this the logo should be uploaded with *INC-3URX-256 Uploader* program after choosing *CPM Data* upload function.

Note: Recommended resolution for logo is 600 (wide) x Any (height), JPG format, size cannot be bigger than 20 kbyte.

To upload newest web browser menu file you can also use *INC-3URX-256 Uploader* program *CPM Data* function. After uploading the *cpm.dat* file what you wish to use, you can see the new web browser display.

Note: Web browser menu of IP card can only be uploaded on the web browser site of IP card. Upload is possible in *Data Upload* menu. If the web browser site cannot be uploaded from any reason, you can use IP address then */mpfsupload* command for data upload (for example: *192.168.1.232/mpfsupload*) of *ip.bin* file. Default password for web file upload is: 1234.

8. SYSTEM MESSAGES

System Message	Code	Description
AC ERROR	81	No main AC voltage
AC RESTORED	82	Main AC voltage restored
BATTERY LOW	83	No battery or low battery voltage level
BATTERY OK	84	Battery connected, battery voltage level OK
COM A ERROR	85	Communication error on COM A port
COM A RESTORED	86	Communication restored on COM A port
COM B ERROR	87	Communication error on COM B port
COM B RESTORED	88	Communication restored on COM B port
TCP/IP ERROR	89	For future usage
TCP/IP RESTORED	8A	For future usage
IP LINK ERROR	8B	Network cable unplugged
IP LINK ACTIVE	8C	Network cable connection OK
PRINTER ERROR	8D	Printer is off or no paper
PRINTER OK	8E	Printer is ready to use
RECEIVER RESET	8F	Receiver restarted
TIME/DATE SET	91	Receiver date and time was set
PROGRAM MODE	92	Programming through serial port
PROGRAM END	93	End of programming through serial port
REMOTE ACCESS	94	Programming through IP network
REMOTE END	95	End of programming through IP network
MANUAL ACK	96	Manual acknowledge of events in receiver
ACCESS GRANTED	97	Successful password usage in receiver menu
ACCESS DENIED	98	Incorrect password usage in receiver menu
RECEIVER TAMPER	99	Receiver tamper violation (if tamper is enabled)
REC. TAMP RESTORE	9A	Receiver tamper restored (if tamper is enabled)
IP WAN ERROR	9B	External WAN connection test failed
IP WAN RESTORE	9C	External WAN connection test OK
EVENT OVERFLOW	9E	Event buffer overflow at COM A port
EVENT OVERFLOW	9F	Event buffer overflow at COM B port
IP ERROR	1692	There is no IP communication from the given client account within the defined time range (comm. lost)
IP RESTORE	3692	IP communication restored for the given client account where communication was lost

System Message	Code	Description
LINE CARD RESET	E0	Line card restarted
TEL LINE ERROR	20	Telephone line error
TEL LINE OK	30	Telephone line restored
FAULT CALL	40	Received call error, no data receiving
FAULT DATA	10	Received data error, missing data
CANCEL CALL	50	Call abort by the user (hang up)
LINE CARD FAIL	D0	Internal communication trouble with line card

System Message	Code	Description
DATAFILE MODIFY	B1	IP receiver card web browser data file modified
SETTING MODIFY	B2	IP receiver card settings changed
PROGRAM MODE	B3	IP receiver card programming through serial port / IP network
PROGRAM END	B4	IP receiver card programming through serial port / IP network end
COM ERROR	B5	IP receiver card communication error on USB port (with monitoring software)
COM RESTORED	B6	IP receiver card communication restore on USB port (with monitoring software)
TCP/IP ERROR	B7	IP receiver card TCP/IP network error
TCP/IP RESTORED	B8	IP receiver card TCP/IP network restored
TIME/DATE SET	B9	IP receiver card date and time set
FIRMWARE UPDATE	B0	IP receiver card firmware updated
LAN ERROR	BB	IP receiver internal LAN connection (gateway) test failed
LAN RESTORED	BC	IP receiver internal LAN connection (gateway) test OK
RECEIVER RESET	BD	IP receiver card restarted
IP WAN ERROR	BE	IP receiver external WAN connection test failed
IP WAN RESTORE	BF	IP receiver external WAN connection test OK

Note.: System messages are sent with 0000 client account (except IP ERROR / IP RESTORE messages, which are sent with the given client account where IP communication was lost).

9.1 Telephone line card communication formats

Name	HSK	Data	Speed	Format	Ext	Kissoff
Ademco Slow	1400 Hz	1900 Hz Pulse	10 bps	3/1, 3/2, 4/1, 4/2	+	1400 Hz
Silent Knight Fast	1400 Hz	1900 Hz Pulse	14 bps	3/1, 3/2, 4/1, 4/2	+	1400 Hz
Franklin SESCOA	2300 Hz	1800 Hz Pulse	20 bps	3/1, 3/2, 4/1, 4/2	+	2300 Hz
Radionics	1400 Hz	1800 Hz Pulse	40 bps	3/1, 4/2, 3/1+p, 4/2+p	+	1400 Hz
Radionics	2300 Hz	1800 Hz Pulse	40 bps	3/1, 4/2, 3/1+p, 4/2+p	+	2300 Hz
SESCOA SuperSpeed	2300 Hz	1800 Hz Pulse	40 bps	4/3+p	-	2300 Hz
Contact ID	Dual	DTMF		Contact ID	-	1400 Hz
Sur-Gard	2300 Hz	DTMF		4/1, 4/2, 4/3, 4/3+p*	-	2300 Hz
Sur-Gard 1400	Dual	DTMF		4/1, 4/2, 4/3, 4/3+p*	-	1400 Hz
Ademco Express	Dual	DTMF		4/2	-	1400 Hz
Acron DTMF	Dual	DTMF		4/8	-	1400 Hz
Ademco HighSpeed	Dual	DTMF		4/8/1	-	1400 Hz
SIA FSK level 1, 2, 3	FSK mark	FSK 110-300	baud	SIA data packets	-	tone/data
BodyGuard CID 2W	DTMF	DTMF		Contact ID	-	DTMF
NGN FB Request	2100Hz	-	-	-	-	-

* Receiving of the format depends on telephone line card settings.