PLATAN Libra

PBX SERVER

QUICK START

ver. 1.20.02

Libra PBX Server, Libra STD PBX Server
as well as PLATAN LibraWeb®
are products manufactured by:
PLATAN Sp. z o.o. sp.k., 81-855 Sopot, ul. Platanowa 2, Poland
tel. +48 58 555 88 00, fax +48 58 555 88 01
e-mail: export@platan.pl, www.platan.eu
technical support and maintenance: support@platan.pl

Sopot, December 10th, 2015

The Libra PBX Server package includes:

- Libra PBX Server (1, 2, 3, 4, 5 or 6 units)
- Ethernet RJ-45 patchcord (simple)
    - 2 cables for 2 server units
    - 3 cables for 3 server units
    - 4 cables for 4 server units
    - 5 cables for 5 server units
    - 6 cables for 6 server units
- Quick start manual
- Warranty card
- Confirmation of acquired licences

User manual for Libra & Proxima PBX Servers is available in *Files* tab on http://www.platan.eu/offer/ip-pbx-telephone-systems/libra.html

Default Libra PBX Server address: 192.168.1.250

Note!

In the case of the server configurations with more than 48 analogue extensions, the manufacturer recommends using the crossover connections panels (LIBRA-PPK) dedicated to the Libra PBX Server.

NOTE. Due to safety reasons, it is recommended to connect Libra PBX Server behind a router.

PLATAN

ISO 9001:2008

Declaration of Conformity no. 2/2013 CE

Manufacturer: Platan Sp. z o.o. sp.k.
ul. Platanowa 2
81-855 Sopot, Poland

Product: **Libra** PBX Server with dedicated proprietary phones and consoles

We hereby declare that the product identified above is in conformity with the essential requirements of the directive 1999/5/EC (RTTE) on radio equipment and telecommunications terminal equipment.

The product has been tested against the following standards:

EN 60950-1:2006 / AC:2011
Information Technology Equipment – Safety – Essential requirements

EN 55022:2010 / AC:2011
Electromagnetic compatibility (EMC) – Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement

EN 55024:2010
Electromagnetic compatibility (EMC) – Information technology equipment – Immunity – Limits and methods of measurement

EN 61000-3-2:2006 + A1:2009 + A2:2009
Electromagnetic compatibility (EMC) – Limits – Limits for harmonic current emissions (equipment input current ≤ 16A per phase)

EN 61000-3-3:2008
Electromagnetic compatibility (EMC) – Generic standards – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection

EN 61000-6-1:2007
Electromagnetic compatibility (EMC) – Generic standards - Immunity for residential, commercial and light-industrial environments

EN 61000-6-3:2007 + A1:2011
Electromagnetic compatibility (EMC) – Generic standards – Emission standard for residential, commercial and light-industrial environments.

This equipment satisfies the requirements regarding the disturbance limits for class A equipment, for which the following warning applies: "This equipment is a class A product. It may cause radio interference in residential environments. Should such circumstances occur, the user will be required to take adequate corrective measures."

President of the Board
Wiesław Rybnik

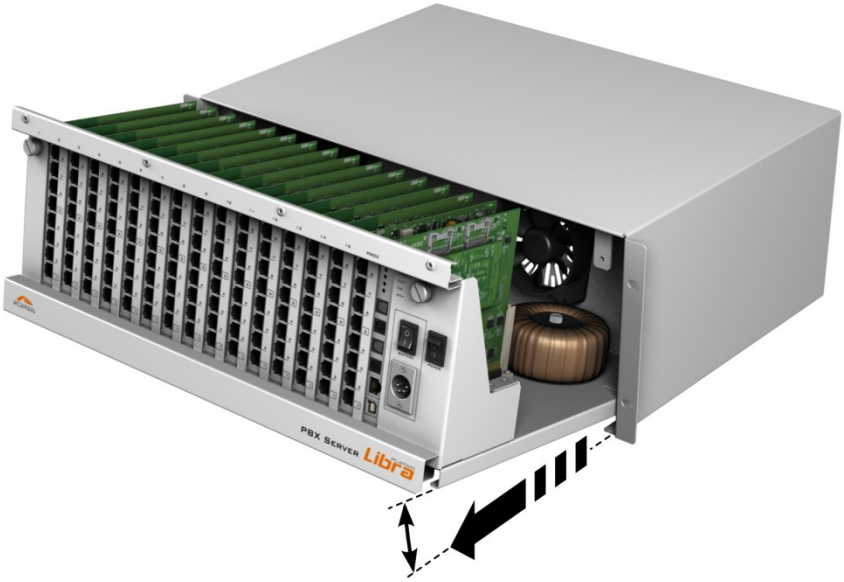
Sopot, July 01, 2013

Table of contents

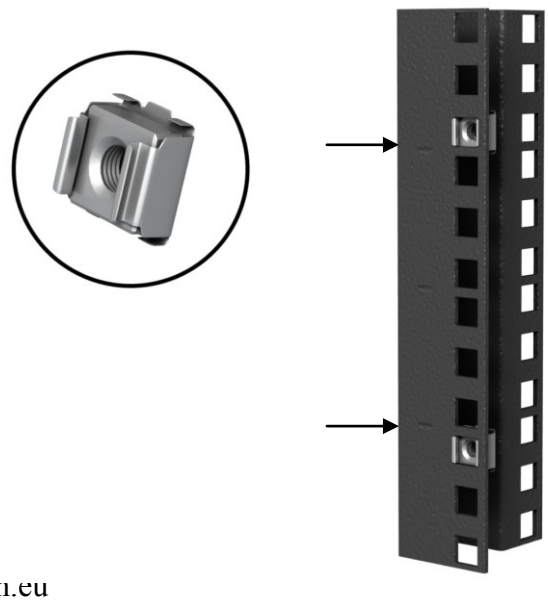
1. Libra PBX Server installation in a RACK 19” cabinet

1. Unscrew two screws securing access to the Libra server case front panel:

2. Pull out and remove the server base from the case by slightly lifting its front part:



3. Install the CLIPKO mounting catches in the RACK 19” cabinet buses – 4U spacing (6 mounting holes counting from the mounting bus U size multiplication marker should be left empty – the markers are indicated in the figure by arrows).



4. Fasten the Libra server case lid with four screws to the RACK 19” cabinet buses:

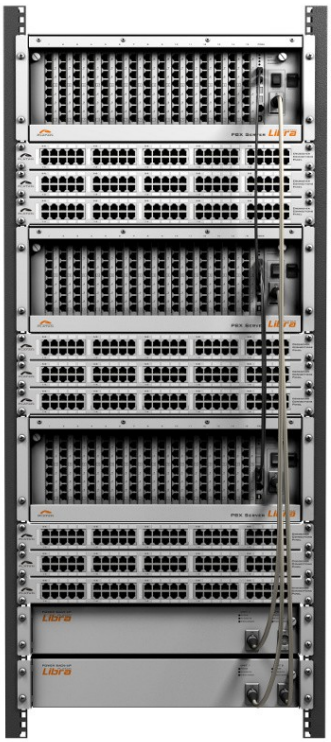
5. Insert the server base with packages and equipment cards into the Libra server case lid (pay attention to the feeder arrangement):

6. Block the server base in the case by screwing down two screws:

If Libra PBX Server consist of more than one unit:

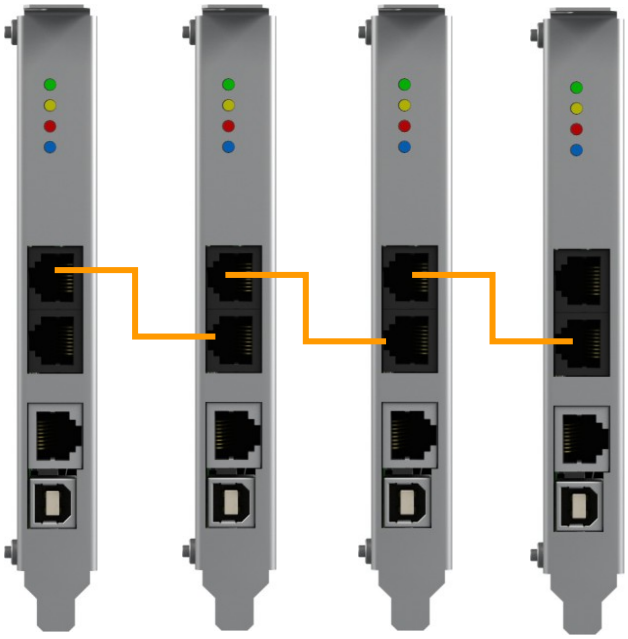
7. Mount the next server units repeating the steps 1 to 6.

8. Connect the server units using the cables provided.



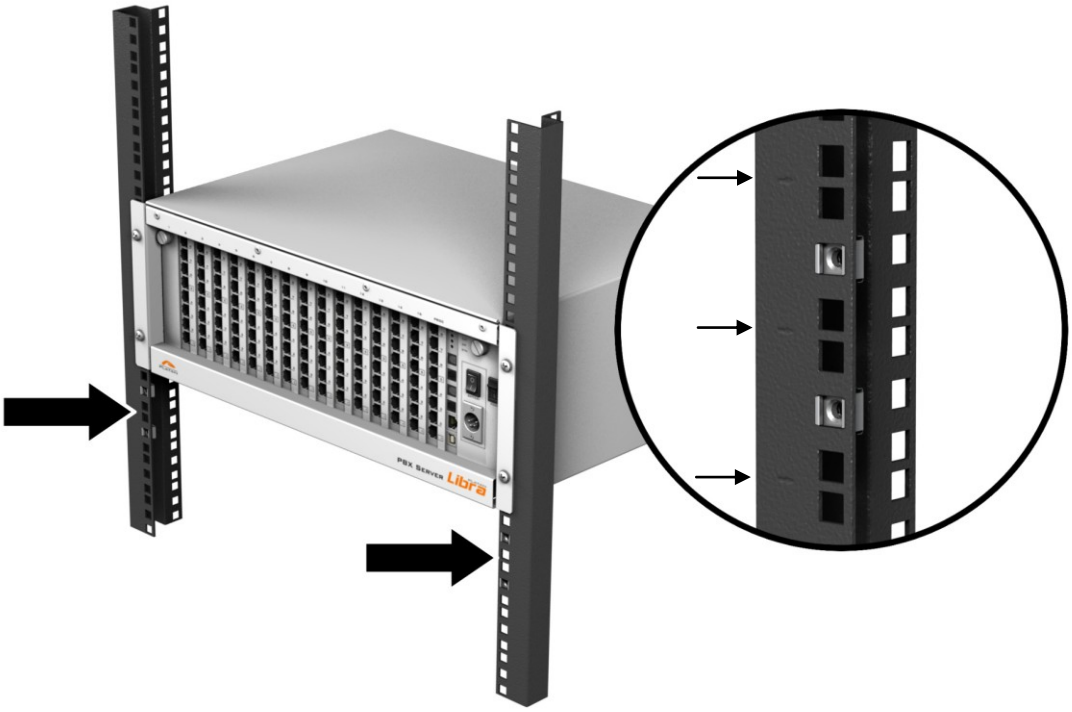
Connect the units according to the following scheme:

Base unit 1 (superior)	Base unit 2 (inferior)	Base unit 3 (inferior)	Base unit 4 (inferior)



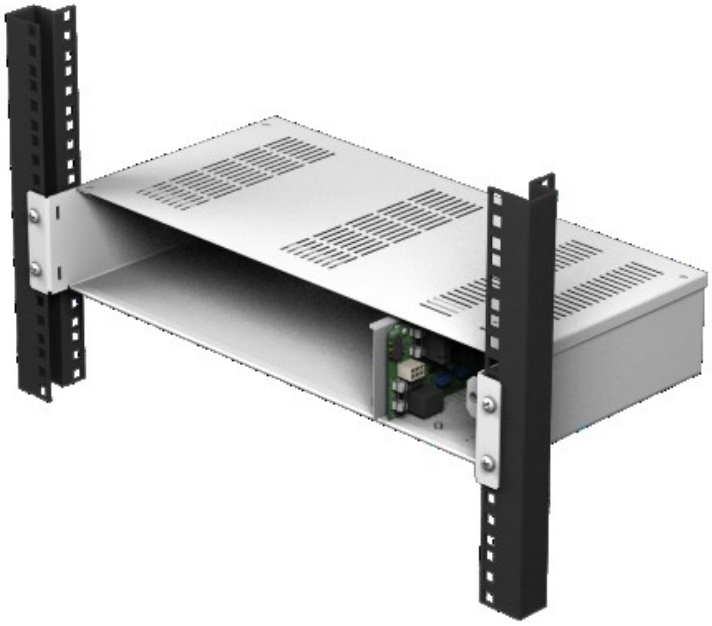
If there is a backup supply panel:

9. Install the CLIPKO mounting catches in the RACK 19” cabinet buses (2 mounting holes counting from the mounting bus U size multiplication marker should be left empty – the marker is indicated in the figure by an arrow):

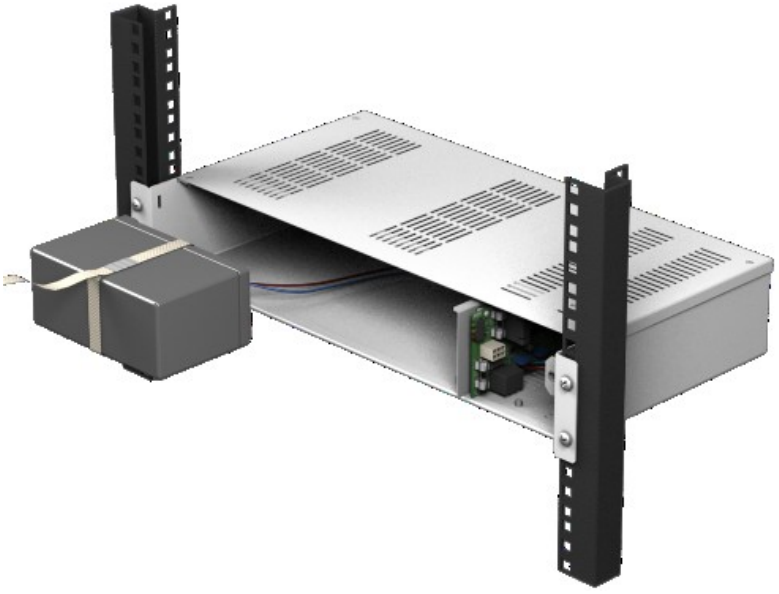


10. Unscrew the screw securing the LIBRA-ZR front panel:

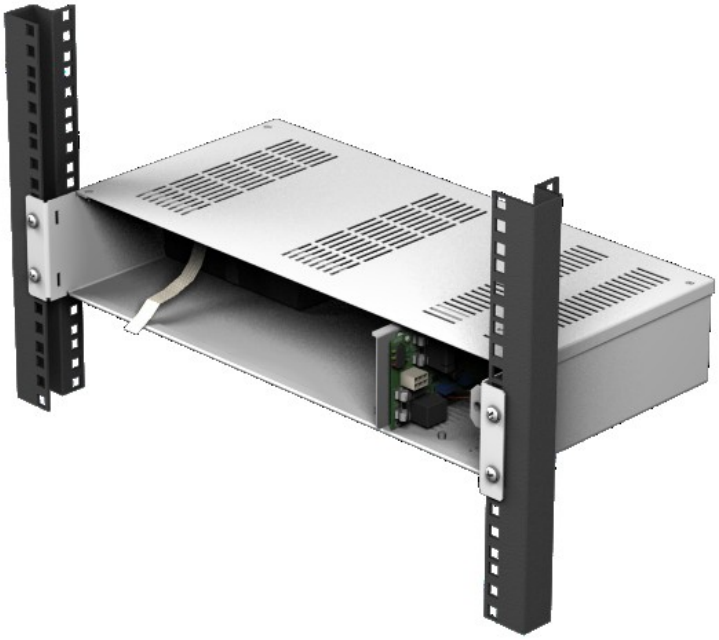
11. Mount the backup supply panel into the RACK 19” cabinet and remove the front panel:



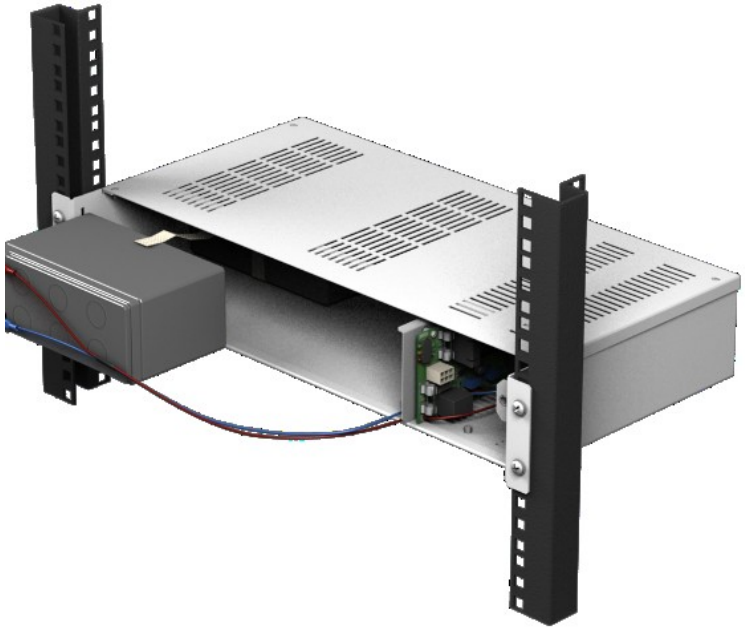
12. Install the first battery (with a mounting band facilitating the subsequent removal of this battery from the panel case) and connect the feeder cables to it (red to “+”, blue to “-”):



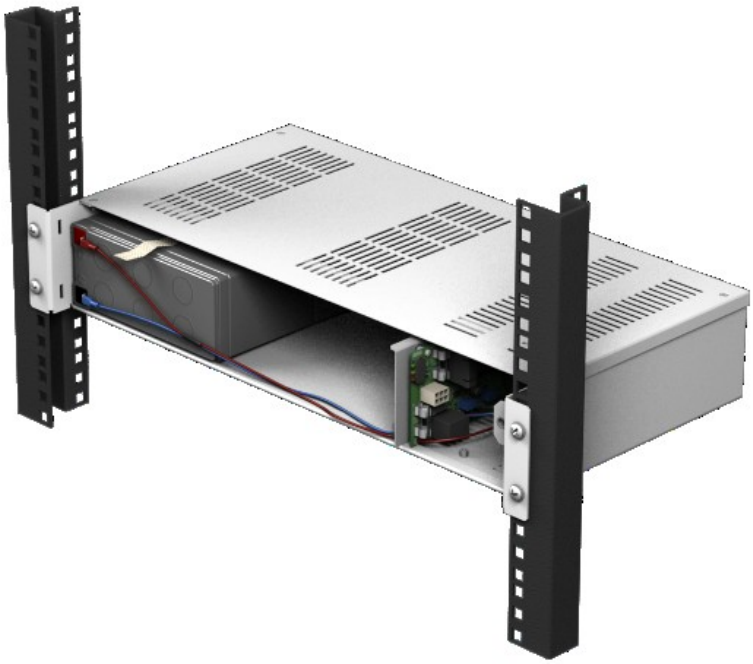
13. Push the first battery (the one with the mounting band) on the left to the end of the backup supply case:



14. Connect the feeder cables to the second battery (red to “+”, blue to “-”):

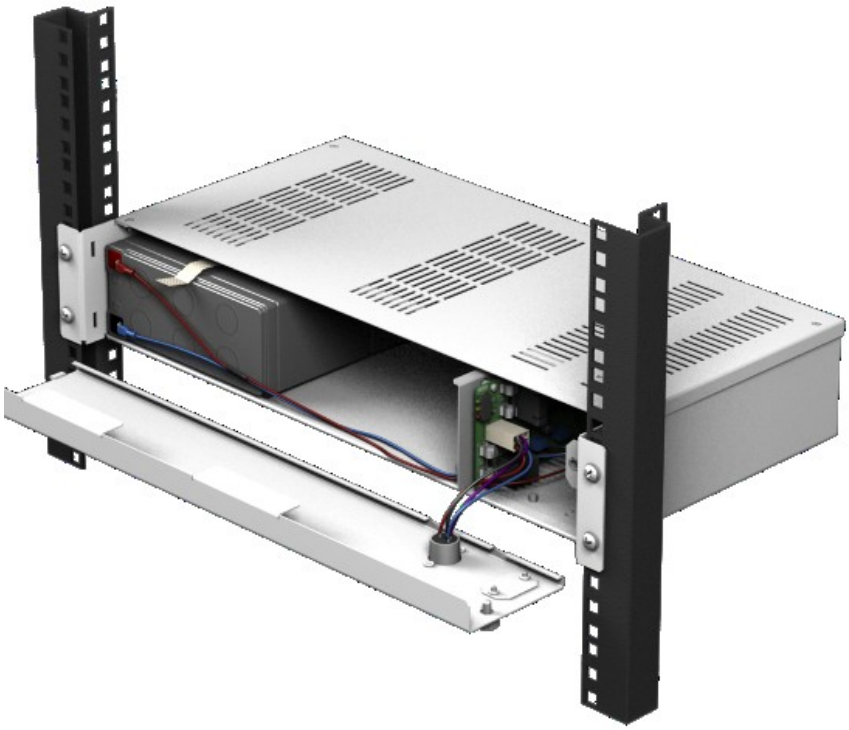


15. Place the second battery on the left of the backup supply panel:



16. If the Libra PBX Server consists of two or more units, the second set of batteries should be connected in the backup supply panel by repeating steps 10 to 15.

17. Connect the LIBRA-ZR front panel connector to the MZR module socket:



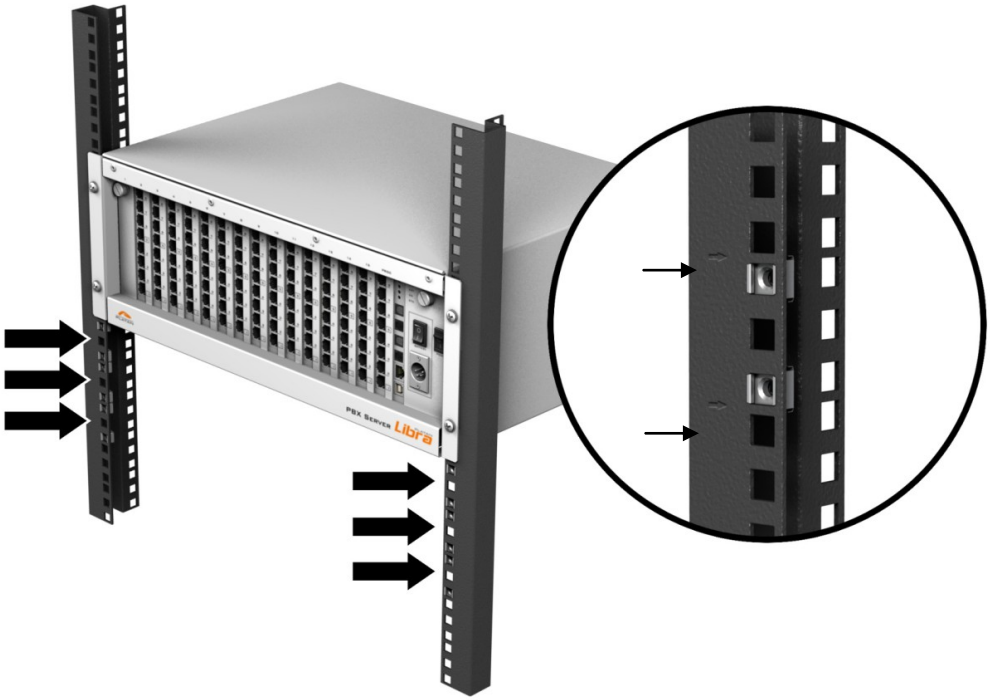
18. Mount the LIBRA-ZR front panel in the catches on the left side of the case and secure it with a screw on the right:

19. Use the backup supply cable to connect the backup supply panel with one or two base server units (depending on the design):

If the server consist of 3 or 4 units with power backup supply:
20. Install second backup supply panel by repeating steps 9-19.

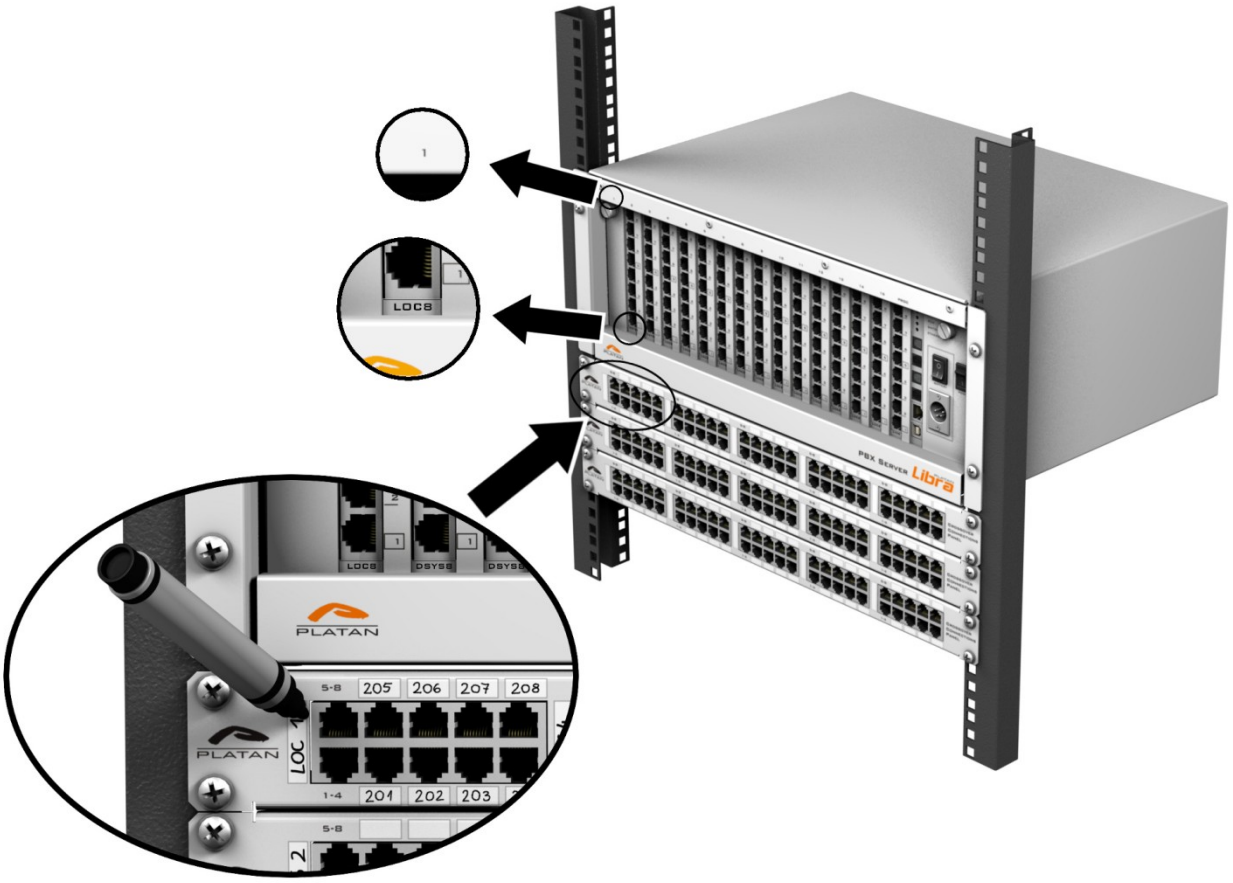
If the crossover connections panels are used:

21. Check which PPK panel terminal slots are equipped with MPKL local crossover connections modules and which with MPKS proprietary crosssover connections modules (mark the proprietary ones on the front panel labels).
Install the CLIPKO mounting catches in the RACK 19” cabinet buses – 1U spacing (1 mounting hole counting from the mounting bus U size multiplication marker should be left empty – the marker is indicated in the figure showing the mounting bus by an arrow).

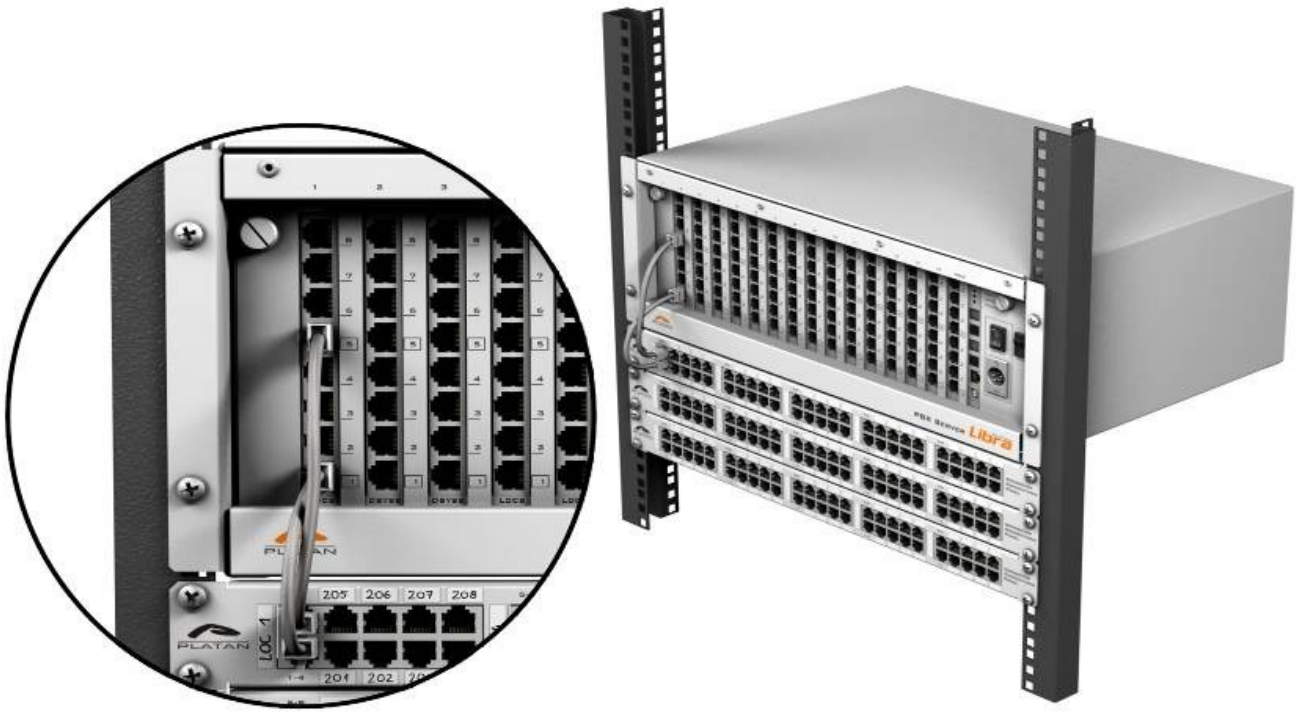


22. Fasten the local and proprietary crossover connections panels to the RACK 19” cabinet buses using screws:

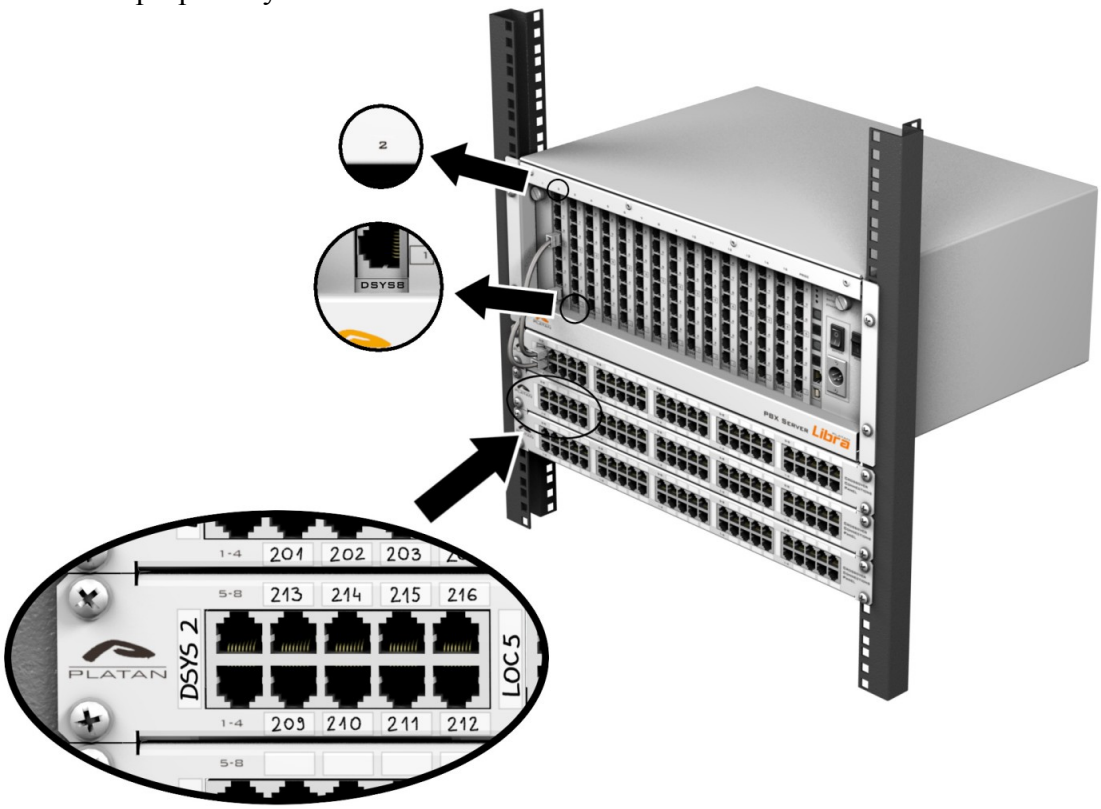
23. Assign MPKL local and MPKS proprietary modules to the adequate server slots and use the label fields under and over the RJ45 sockets on the LIBRA-PPK crossover connections panel to label the phone numbers and identify each extension line easily.



24. Connect by pachcords MPKL modules with server LOC8 modules in the following way:
- MPKL module socket labeled 1-4 connect with LOC8 module socket 1
- MPKL module socket labeled 5-8 connect with LOC8 module socket 5:

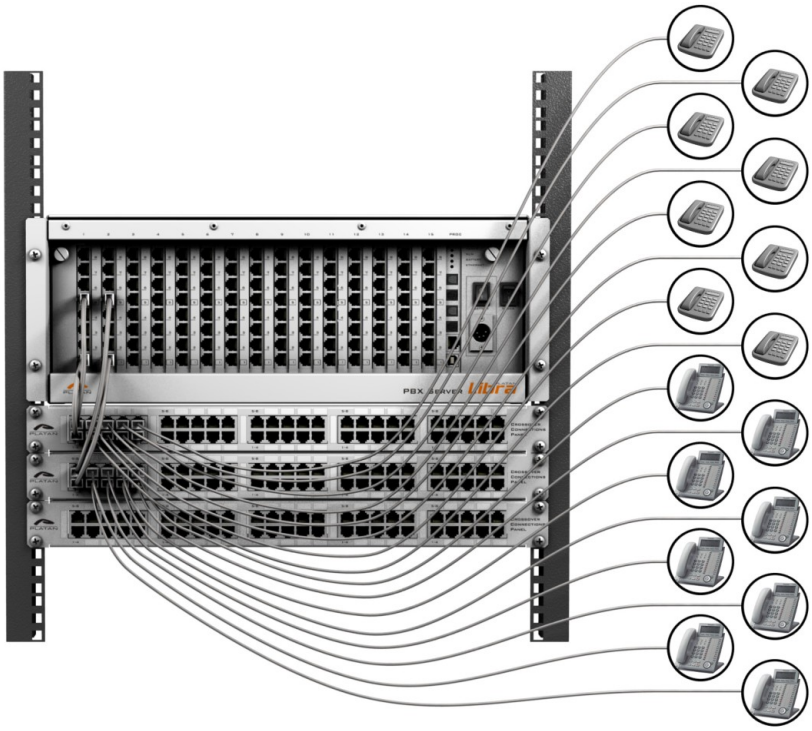


25. Connect and label in the same way MPKS proprietary crossover connections modules with LIBRA-DSYS8 proprietary modules:



For LOC4 and DSYS4 smaller modules, use only 1 patchcord to connect crossover connections module socket 1-4 with functional module socket 1.

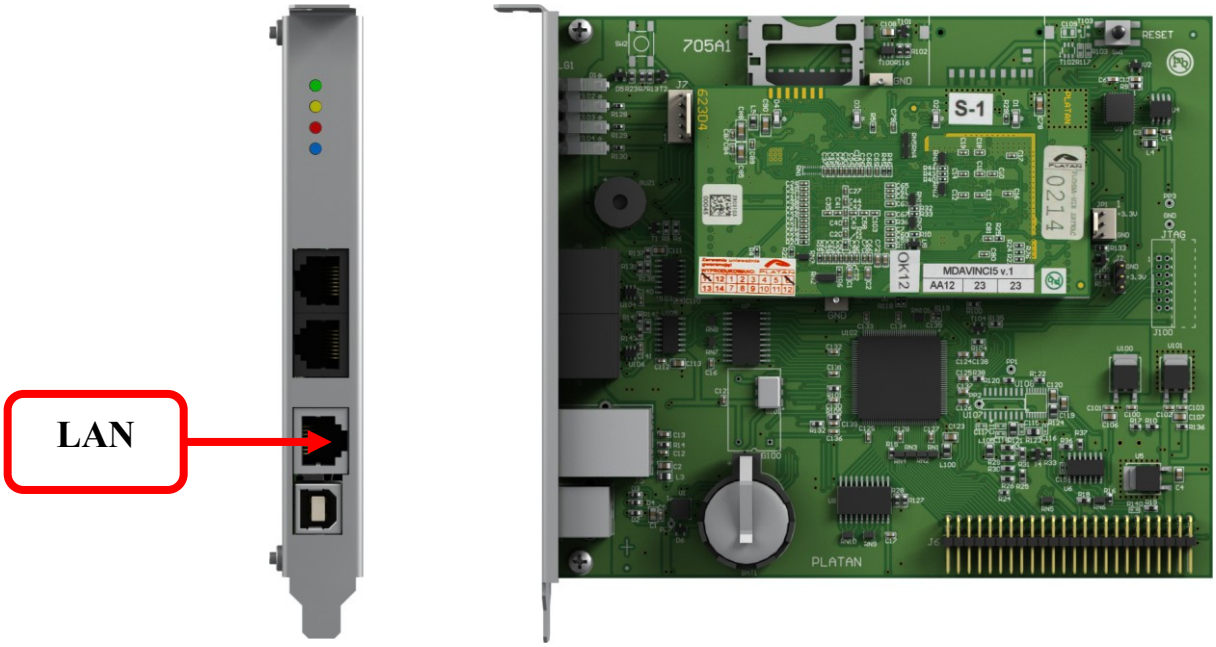
26. Connect MPKL local and MPKS proprietary modules sockets to the building phone installations



Note:
PPK crossover connections panels can be used at large distances from the server (e.g. on different floors). The only limitations are the maximum total extension line length of 4,000 meters (with 0.5 mm wire diameter) and the maximum proprietary line length of 400 meters.

2. Server connection to Ethernet (LAN)

The LIBRA PBX Server is configured via Ethernet using a PC and an Internet browser. In order to connect the server to LAN, standard computer network wiring, preferably UTP or FTP, should be used. The place of connecting the network cable on the Libra server processor is shown in the figure below:



After the server has been properly connected to LAN, a blue LED will light up on the front panel:

Driver card signalisation:

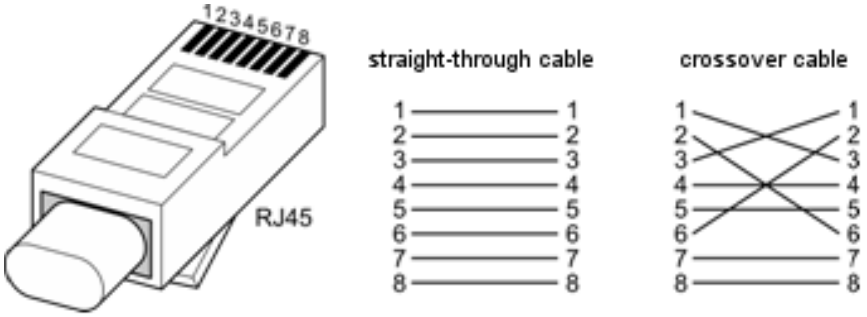
- POWER (green LED*)* – signals that the processor is supplied:
  - emits continuous light – the processor is supplied
  - emits no light – the processor is not supplied

- RUN (yellow LED*)* – signals the LIBRA-PROC driver status
  - flashes 1.0 s/1.0 s – proper operation of the driver processor
  - flashes 0.1 s/0.1 s – one of the trunk or extension equipment is active
  - emits continuous light – driver processor is not working
  - emits no light – driver processor is not working

- BATTERY (red LED) – signals that the Libra server is supplied in the emergency mode
  - emits continuous light – Libra server emergency supply, no 230 V mains supply
  - emits no light – 230 V mains supply

- ETHERNET (blue LED) – signals the presence of the LAN (ETHERNET) interface physical layer
  - emits continuous light – connection to LAN
  - emits no light – no connection to LAN

If LAN is unavailable, it is possible to connect the server to the PC network card. If the PC has the function of automatic cross-linking detection, a straight-through network cable supplied with the server can be used. Otherwise, a crossover network cable must be used:



3. IP address settings

Libra PBX Server default IP address: **192.168.1.250**.

3.1. Setting up the server IP address from the telephone

In order to set up the server IP address from the telephone, the telephone must be first connected. Next, enter the **mode of server programming from the telephone *708 "code"** (default code: 12345678), set the IP address and the subnet mask using the following codes

41 "IP address" # – setting up the IP address, e.g. **41 192*168*1*195#** (the server will restart after programming)

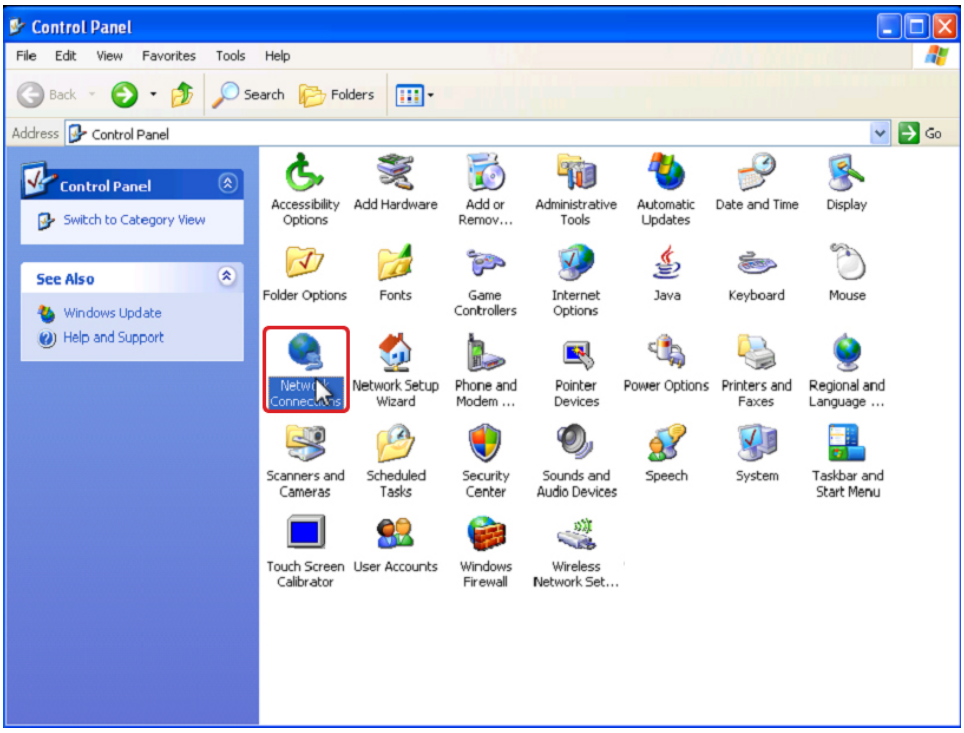
42 "subnet mask" # – setting up the subnet mask, e.g. **42 255*255*255*0#** (the server will restart after programming)

NOTE
After entering the IP address from the telephone, the server sets the default port to 80.

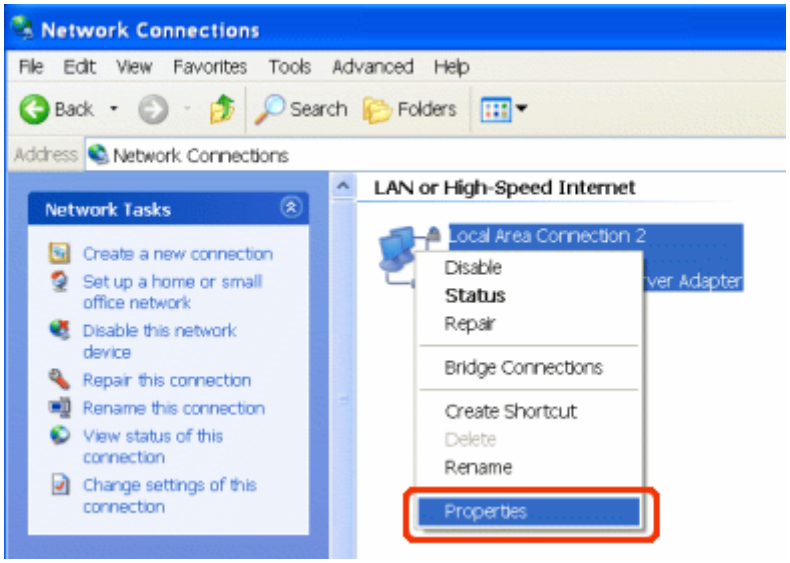
3.2. Setting up the IP address in the PC directly connected to Libra PBX Server

3.2.1. WINDOWS XP

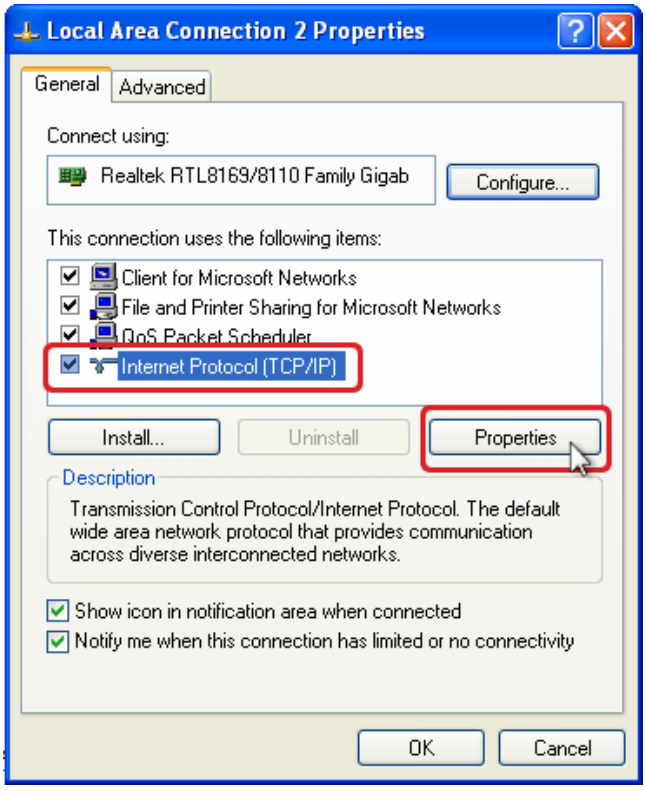
In order to change the IP address, a proper item must be found in the Windows Control Panel:



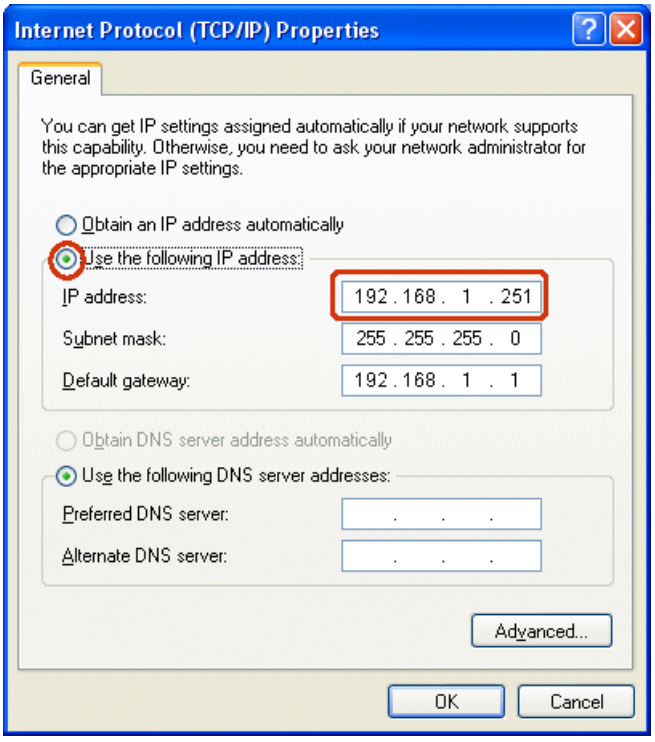
A dialogue box with *Network Connections* will be displayed. If the PC is equipped with one network card only, only one icon should be available. To access the network connection *Properties*, right-click the icon and select the right option from the drop-down menu:



When a dialogue box is displayed, click *Internet Protocol (TCP/IP)* and click *Properties* again:

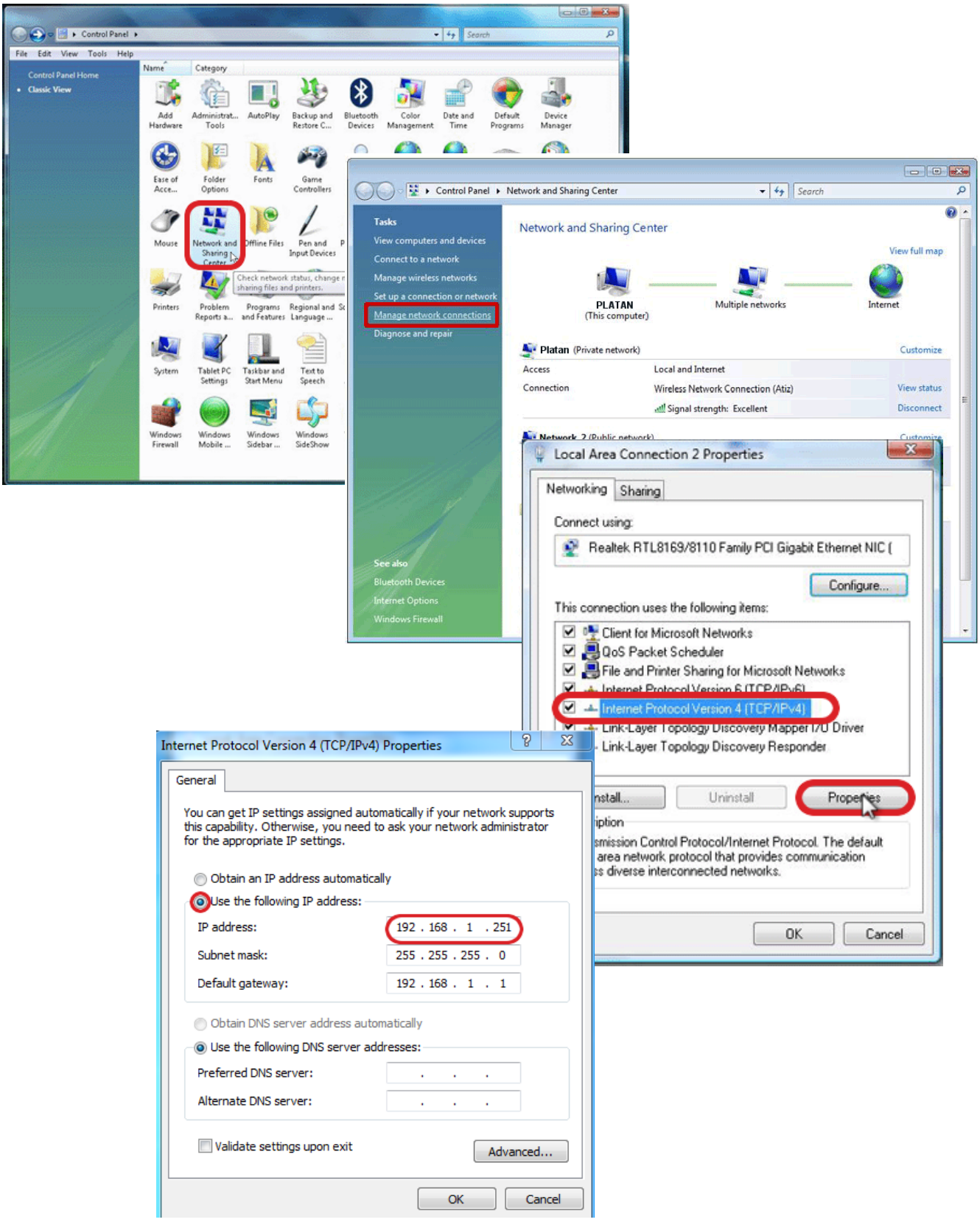


Now you can edit the IP address. Make sure that the *Use the following IP address* option is selected. Enter the IP address in the field marked below:



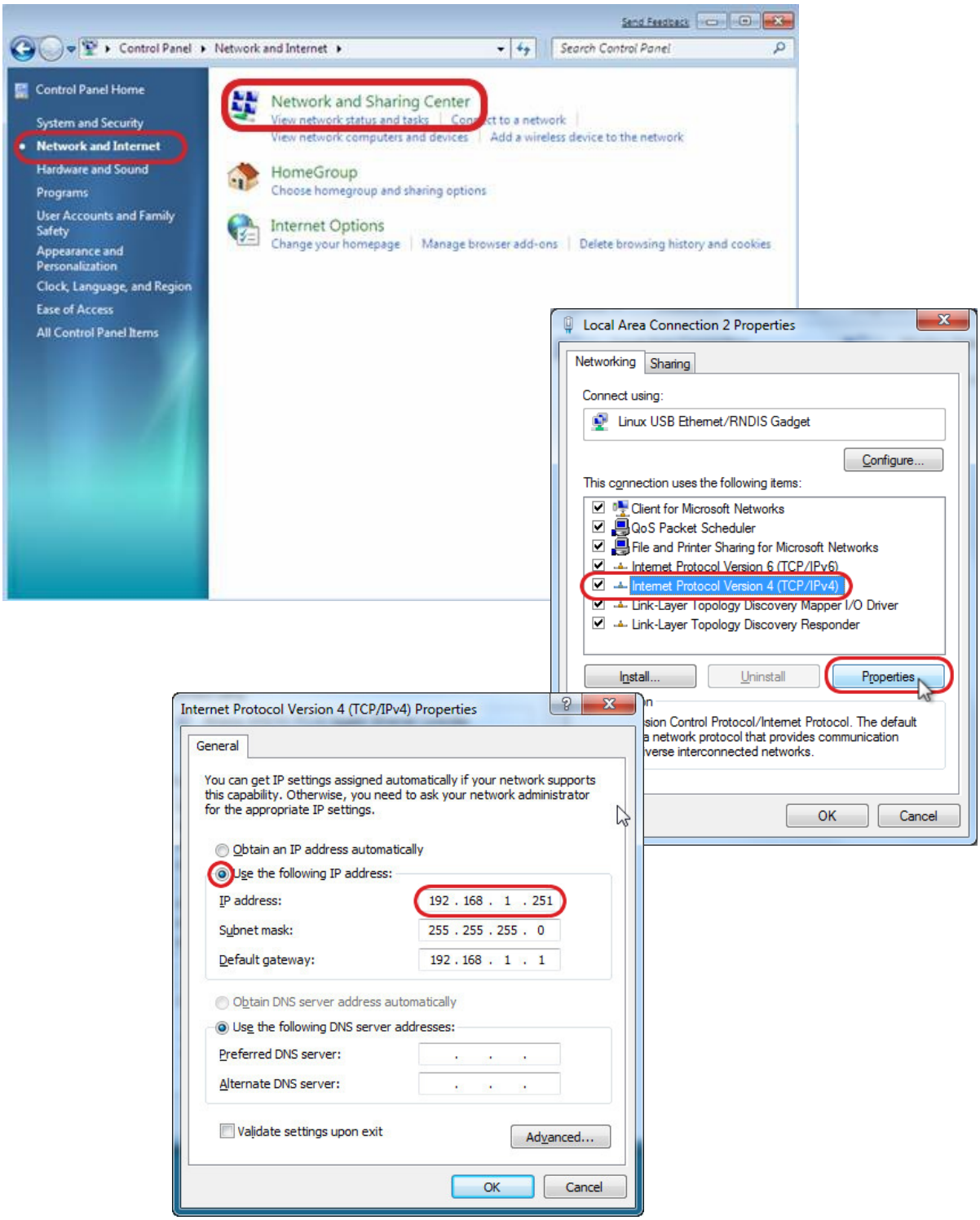
3.2.2. WINDOWS VISTA

Select *Network and Sharing Center* from the Control Panel and then select the network from the *Manage network connections* option. Select the *Internet Protocol Version 4 (TCP/IP v.4)* from the network properties and enter the network parameters after clicking *Properties*.



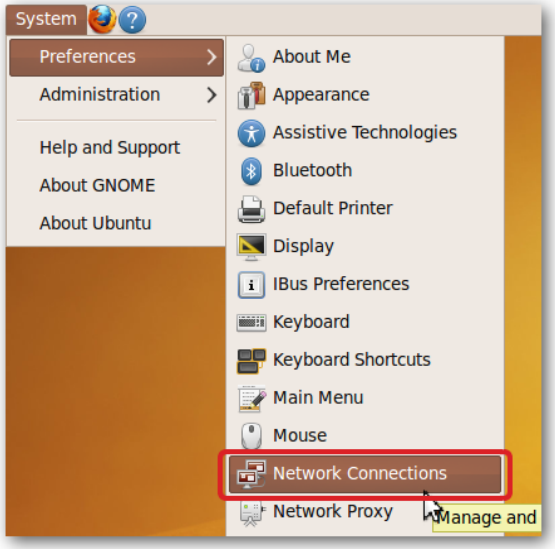
3.2.3. WINDOWS 7

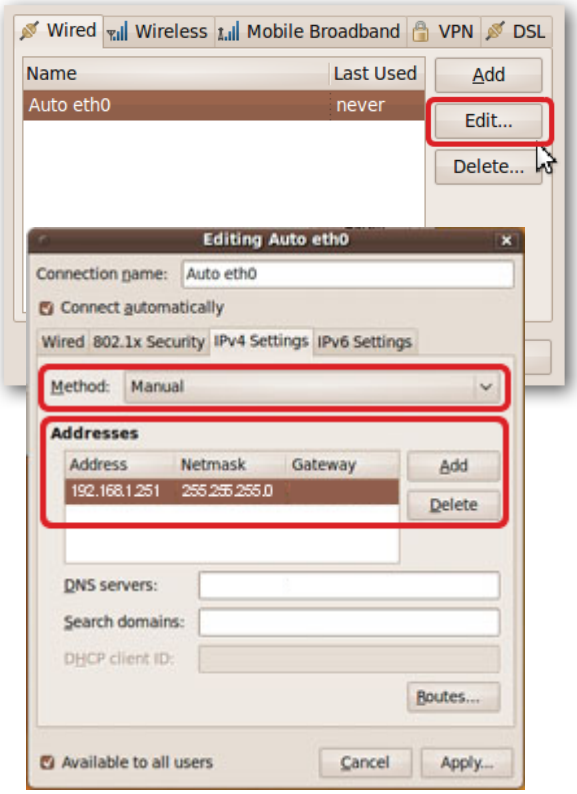
Select *Network and Internet* from the Control Panel and then select the right network from *Network connections*. Select the *Internet Protocol Version 4 (TCP/IP v.4)* from the network properties and enter the network parameters after clicking *Properties*.



3.2.4. LINUX Ubuntu

Go to *System* → *Preferences* → *Network Connections*, select the *IPv4 Settings* tab, change Method to *Manual* and enter the right network parameters.





The IP address must belong to the same subnet as the Libra server and must be different from it, e.g.: IP address – 192.168.1.251, subnet mask – 255.255.255.0

3.3. Libra PBX address is not compatible with LAN architecture

If the default Libra server address (192.168.1.250) is incompatible with the architecture of the LAN to which the server has been connected, the server IP address should be changed:

- from the telephone (section 3.1) or
- the server should be connected directly to the PC (PC IP address should also be changed – see section 3.2.) and the server IP address should be changed via *LibraWeb* software to a compatible one.

Should you encounter any problems, contact your computer network administrator.

4. Logging into the Libra PBX Server

To manage the Libra PBX Server, the Java environment has to be installed on the computer. The latest Java version you can download from www.java.com website.

The server can be configured after the 192.168.1.250/admin/ address has been entered in the browser address bar.

After the IP address has been confirmed, a LibraWeb application will be downloaded from the Libra PBX Server. On activation it will require a password to be entered (default installer password: 44444444).

The server configuration settings can be changed in the program dialogue boxes. However, the server will apply the introduced changes only after if has received the modified configuration.

After the configuration has been downloaded from the server or the *New configuration* option has been selected, the server is ready to be configured.