Clone+ ™

Home Edition 150

Wireless SmartCard Splitter of Digital PayTV Subscription

Multi Room Solution

Multiply your PayTV possibilities

PY-H

Clone+

- Ready
- Signal Good
- Upgrade
- Link

- Ready
- Signal Good
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- Link

Clone+ ™

Home Edition 150

USER MANUAL

1. Safety and usage information

The **Clone+™** devices have been designed according to the safety standards. Before using this unit, make sure to read the safety and usage information as well as the User Manual.

1.1 Small children and animals

The **Clone+™** devices contain small parts which may cause choking or serious injuries if swallowed. Keep this unit out of the reach of small children or animals.

1.2 Precautions

• Keep the **Clone+™** device away from rain, moisture and humidity.
• Keep the **Clone+™** device away from direct sunlight, heat-generating equipment or strong magnetic field or its emitters or generators.
• It is advised not to use the **Clone+™** device during the storm. It is recommended to unplug the device from the mains to eliminate the risk of the electrical shock or short-circuit.
• Do not clean the **Clone+™** device with water, liquids or aerosols.
• The voltage of the designated power adapter that comes with this unit is 230V AC/50-60Hz.
• Do not overload wall power outlets or extension cords, as this may result in the risk of fire or electrical shock.

1.3 Requirements

The following are required to install and use the **Clone+™** devices:
• digital satellite, cable or terrestrial receivers of Conax, Cryptoworks, MediaGuard, Viaccess-coded pay-tv.
• a working *installation** connected to each of the digital satellite, cable or terrestrial receivers,
• valid subscriber card.

1.4 Other electronic equipment

Devices which emit radio transmission in their wireless communication may disrupt the performance of the **Clone+™** devices.

1.5 Important notes

Use only the designated power adapter and accessories approved by **PYCH** International Electronics Sp. z o.o.. Using any other unsuitable power adapters and accessories which are not approved by **PYCH** International Electronics Sp. z o.o. may result in damaging the unit or severe injury.

* a working installation is herewith defined as an installation in which all the devices have been installed properly.

2. About *Clone+™*

2.1 How it works :

The *Clone+™* SRF150 Access Server is a main unit which multiplies the privileges of the subscriber card and sends them to the authorised wireless *Clone+™* CRF150 Client Cards. The *Clone+™* CRF150 Client Cards are subordinate units which co-ordinate the information exchange between the SmartCard reader module in the digital satellite, cable or terrestrial receiver (or CI module) and the *Clone+™* SRF150 Access Server.

> **Note:**
> The *Clone+™* devices only send the subscriber card privileges and do not affect the quality of the sound and vision whatsoever.

2.2 Benefits to the user:

• viewing the digital pay-tv simultaneously on 8 TV receivers (independent channels) with paying only for one subscriber's plan,
• cost saving solution for the user (one subscriber's plan serves up to 8 TV receivers).

2.3 Key features:

• Dedicated for the digital tv platforms using the content encryption systems such as Conax, CryptoWorks, MediaGuard, Viaccess,
• 8 active users,
• unauthorised access protection,
• works with all digital satellite, cable, terrestrial receivers and CI modules which are Conax, CryptoWorks, MediaGuard, Viaccess compatible,
• an extended system of LED indicators,
• advanced Plug&Play technology,
• fast and reliable performance,
• software update via USB,
• easy and fast installation.

2.4 Product specification:

• transmission: RF 868 - 915MHz, BW 150kHz, GFSK, NRZ 38.4 Kbps,
• variable transmitter power from -20 to 5 dBm,
• range up to 150 meters (outdoors),
• DC 12V-powered.

3. Contents

①	Wireless Access Server SRF150	1
②	Wireless Client Card CRF150	2
③	12V power adapter	1
④	User Manual	1
⑤	Mini CD	1
⑥	USB cable	1
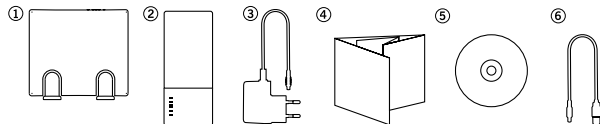
4. First steps

4.1 Installation of the SRF150 Access Server and authorisation of the CRF150 Client Cards.
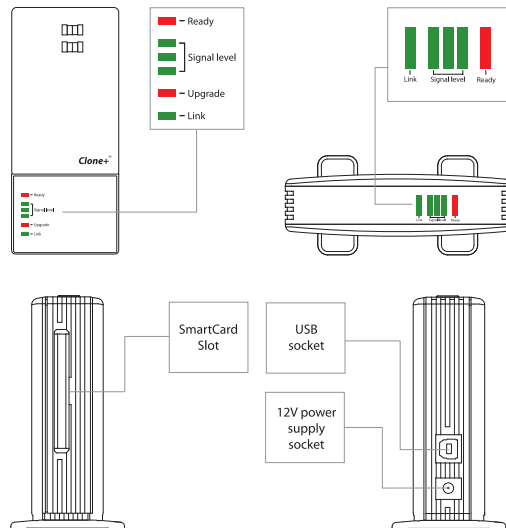
Step-by-step procedure:

① Insert the valid subscriber card of the service provider into the server's SmartCard slot.

② Connect the power tip to the Server SRF150 and then plug the power adapter into the 230V AC/50-60Hz mains socket.

③ Wait until the Ready LED is ON.

④ Remove the subscriber card from the server's SmartCard slot.

⑤ Insert the CRF150 Client Card into the server's SmartCard slot.

⑥ Wait until the Upgrade LED is OFF on the CRF150 Client Card.

⑦ Remove the CRF150 Client Card from the server's SmartCard slot - the Client Card is now ready to use with digital receivers or CI modules.

> **Note:**
> *To authorise another CRF150 Client Card, repeat steps 5 to 7.*

⑧ Insert the valid subscriber card of the service provider into the server's SmartCard slot.

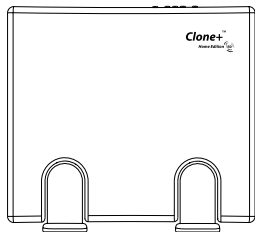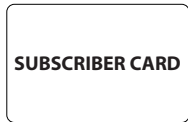**⑨** Insert the CRF150 Client Card into the digital receiver or CI module.

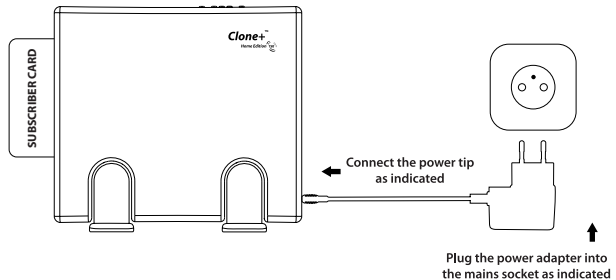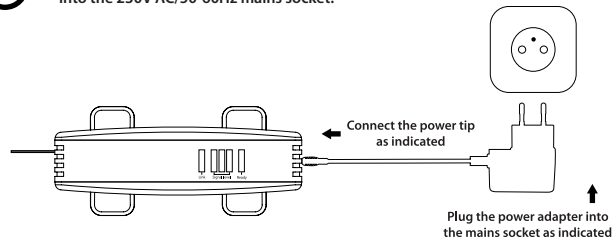① **Insert the valid subscriber card of the service provider into the server's SmartCard slot.**

Card with the chip this side

Insert the card as the arrow indicates ➡
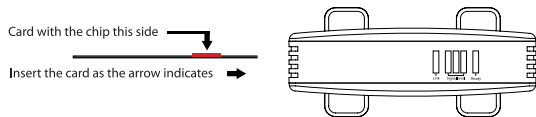
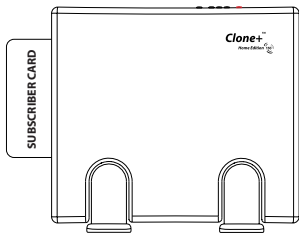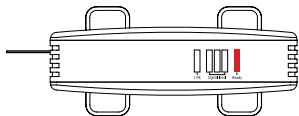Insert the card as indicated ➡

SUBSCRIBER CARD

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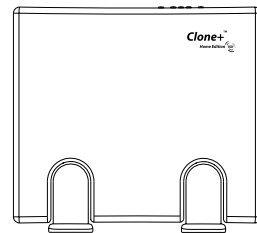② **Connect the power tip to the SRF150 Server and then plug the power adapter into the 230V AC/50-60Hz mains socket.**

Connect the power tip as indicated ⬅

Plug the power adapter into the mains socket as indicated ⬆

Connect the power tip as indicated ⬅

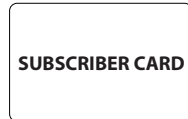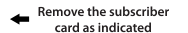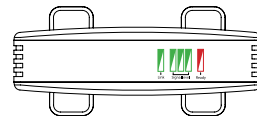SUBSCRIBER CARD

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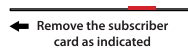Plug the power adapter into the mains socket as indicated ⬆
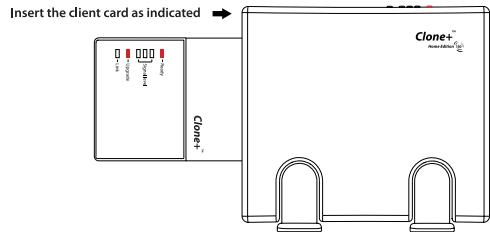
3 Wait until the Ready LED is ON.

4 Remove the subscriber card from the server's SmartCard slot.
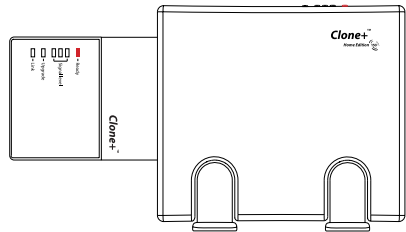
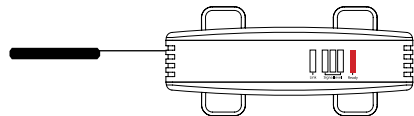← Remove the subscriber card as indicated

← Remove the subscriber card as indicated

SUBSCRIBER CARD

5 Insert the CRF150 Client Card into the server's SmartCard slot.
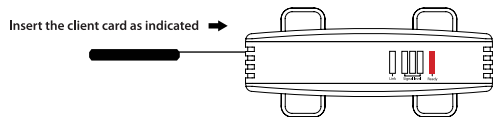
Insert the client card as indicated ➡

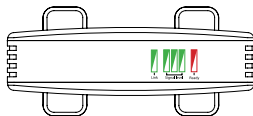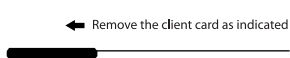Insert the client card as indicated ➡

6 Wait until the Upgrade LED is OFF on the CRF150 Client Card.

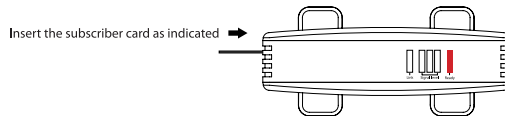**7** Remove the CRF150 Client Card from the server's SmartCard slot.

← Remove the client card as indicated

← Remove the client card as indicated

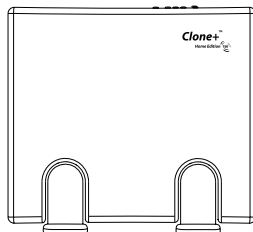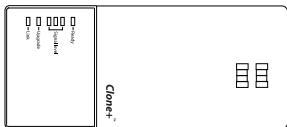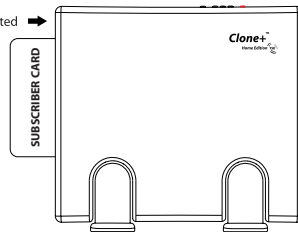Clone+™
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8 Insert the valid subscriber card of the service provider into the server's SmartCard slot.

Insert the subscriber card as indicated →

Insert the subscriber card as indicated →
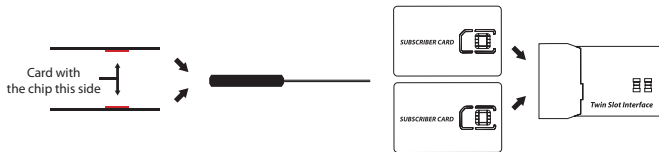
SUBSCRIBER CARD

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4.2 Installation of the SRF150 Access Server working with Twin Slot Interface and authorisation of the CRF150 Client Cards.

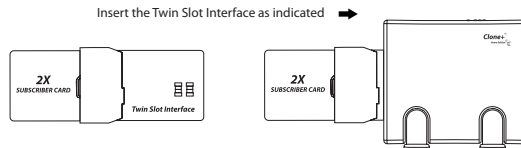Twin Slot Interface enables simultaneous work of subscriber cards of two different service providers.

Step-by-step procedure:

① Authorise the CRF150 Client Cards according to 4.1, steps 1 to 7 for first valid subscriber card of the service provider.

② Authorise the CRF150 Client Cards according to 4.1, steps 1 to 7 for another valid subscriber card of the service provider.

③ Insert valid subscriber cards of the service providers into the Twin Slot Interface's SmartCard slots.

④ Insert the Twin Slot Interface into the server's SmartCard slot.

⑤ Insert the CRF150 Client Cards into the digital receivers or CI modules.

③ Insert valid subscriber cards of the service providers into the Twin Slot Interface's SmartCard slots.

Card with the chip this side

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SUBSCRIBER CARD

Twin Slot Interface

④ Insert the Twin Slot Interface into the server's SmartCard slot.

Insert the Twin Slot Interface as indicated

2X SUBSCRIBER CARD

Twin Slot Interface

2X SUBSCRIBER CARD

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The LED indicators messages about the SRF150 Server status

Link Signal level Ready

The LED indicators messages about the SRF150 Server status

Link Upgrade Signal level Ready

Status	LED	Description
No card in the slot.		0.3 second interval.
Invalid subscriber card or subscriber card's malfunction.		The Ready LED is ON for 2 seconds then it turns OFF for 0.1 second. The cycle repeats.
Ready to use.		
The unit is reading the subscriber card.		
Connection established with the CRF150 Client Card.		The Link LED is ON when connecting with the CRF150 Client Card and it goes OFF when the communication was successful. The Signal Level LED indicates the full, 3-stage level of the CRF150 Client Card signal.
The signal level.		The Signal Level LED indicates the full, 3-stage level of the CRF150 Client Card signal when connected.
Authorising the CRF150 Client Card.		
Software update.		The SRF150 Server is connected to a PC via USB cable.

Status	LED	Description
Authorising the access to the SRF150 Server.		The Upgrade LED blinks for about 4 seconds, stays ON for 0.5 second and goes OFF.
Calibration.		The process takes up to 20 seconds.
Connecting to the SRF150 Server.		The Link LED is ON when the CRF150 Client Card is ready to connect to the SRF150 Server and goes OFF when the connection was successful.
Connection with the SRF150 Server within 3 minutes failed.		
The signal level.		The Signal Level LED indicates the full, 3-stage level of the SRF150 Server signal when connected.
System update.		The Signal Level LED indicates the full, 3-stage level of the SRF150 Server signal when connected.
No access to the SRF150 Server.		

the LED is OFF the LED is blinking the LED is ON

5. Software Update

Step-by-step procedure:
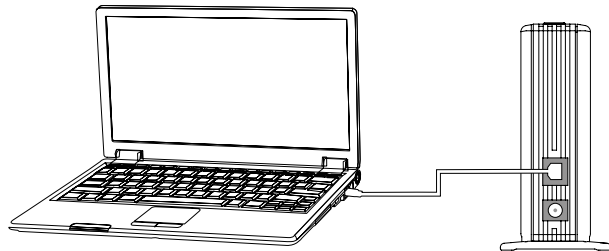
① Connect the SRF150 Server to a PC via the USB cable.

② Connect the power tip to the SRF150 Server.
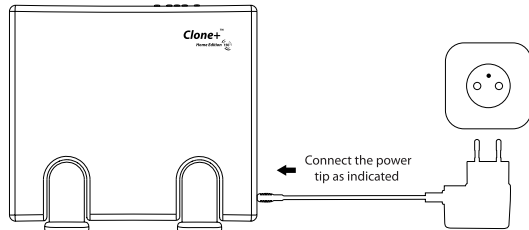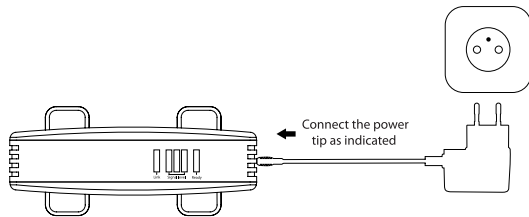
③ Plug the server's power adapter into the 230V AC/50-60Hz mains socket.

④ Install the Clone+ Update application from the CD-ROM.

⑤ Start the Clone+ Update application and then press „Software Update".
The software update will take about 3 seconds. The prompts will be displayed.

⑥ Unplug the power adapter from the 230V AC/50-60Hz mains socket.

⑦ Disconnect the USB cable from the SRF150 Server.

> **Note:**
> *After the software has been successfully updated, follow the instructions in 4.1*
> *- Installation of the SRF150 Access Server and authorisation of the CRF150 Client*
> *Cards. In case of using Twin Slot Interface, follow the instructions in 4.2.*

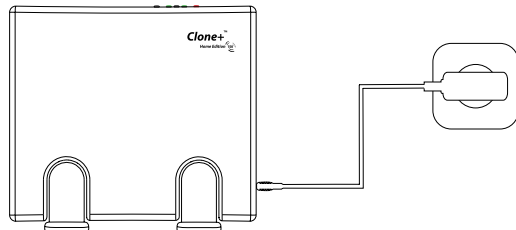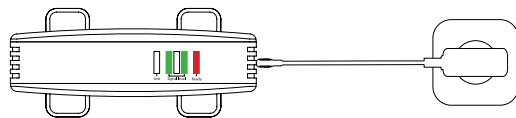① **Connect the SRF150 Server to a PC via the USB cable.**

Connect the power tip to the SRF150 Server.

Plug the server's power adapter into the 230V AC/50-60Hz mains socket.

Connect the power
tip as indicated

Connect the power
tip as indicated

To install the Clone+ Update application, double-click on the file *setup.exe*.

When you are using Microsoft Windows 2000 or Microsoft Windows XP, double-clicking on the file *setup.exe* may result in displaying a webpage in the Internet Explorer browser. If this happens, start the installation wizard by double-clicking on the file *Clone+ Update. manifest*.

When you are using Microsoft Windows NT, Microsoft Windows Server 2008, Microsoft Windows Vista or Microsoft Windows7, you have to be logged in as „administrator" to be able to run *setup.exe*.

After starting the installation wizard, it will advise the user to download and install the latest version of the application. Next, the installation wizard will inform the user about the installation of the drivers. Follow the instructions of the installation wizard. After the installation has been successful, the Clone+ Update will run. To run the Clone+ Update application again, go to:
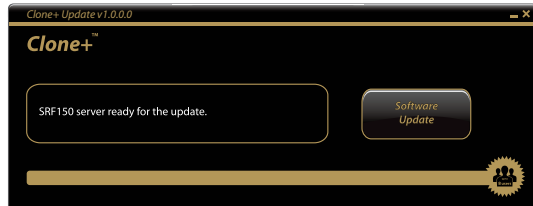
Menu Start => Programs => PYCH International Electronics => Clone+ Update

Note:
If the installation wizard detects that the .NET Framework 2.0 component is not installed, the wizard will automatically download and install the missing component.
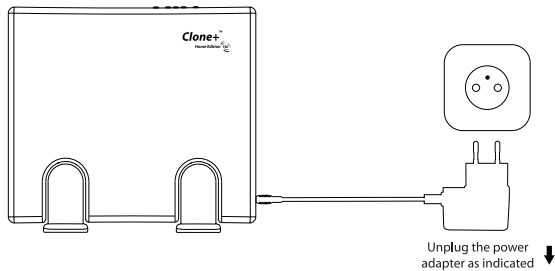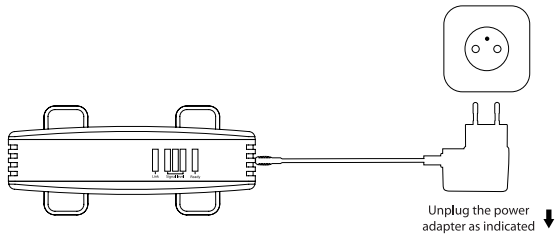

Clone+ Update v1.0.0.0

Clone+ ™

SRF150 server ready for the update.

Software Update

⑥ **Unplug the power adapter from the 230V AC/50-60Hz mains socket.**

Unplug the power
adapter as indicated ⬇

Unplug the power
adapter as indicated ⬇

⑦ **Disconnect the USB cable from the SRF150 Server.**

Disconnect the USB cable as indicated
➡

Disconnect the USB cable as indicated
➡
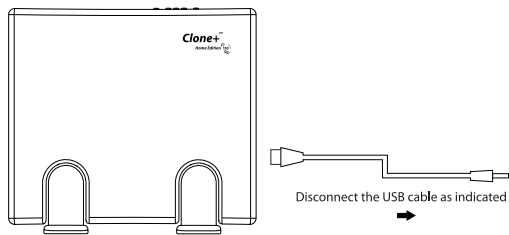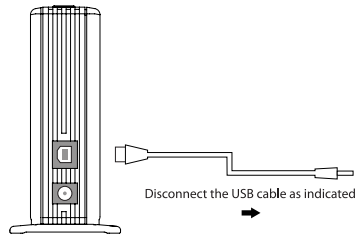
6. Restoring the factory settings

Step-by-step procedure:

① Connect the power tip to the server.

② Plug the server's power adapter into the 230V AC/50-60Hz mains socket.

③ Wait until all the LED indicators are ON (after about 15 minutes).

> **Note:**
> *After restoring the factory settings of the unit, follow the instructions in 4.1 - Installation of the SRF150 Access Server and authorisation of the CRF150 Client Cards. In case of using Twin Slot Interface, follow the instructions in 4.2.*

③ Link Signal level Ready

① Connect the power tip as indicated

Plug the power adapter into the mains socket as indicated **②**
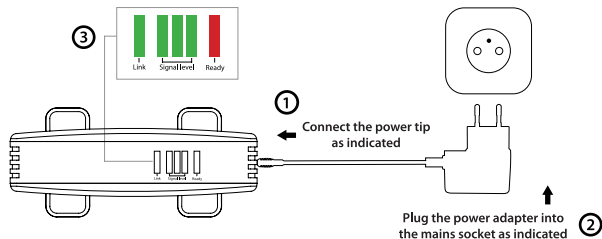
7. Usage and maintenance

Correct disposal of this product:

(Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Manufacturer

PYCH International Electronics Sp. z o.o.
ul. Lipkowska 21
04-801 Warszawa

herewith declare that:
Wireless SmartCard Splitter of Digital PayTV Subscription

Clone+™ **Home Edition 150**: SRF150, CRF150

conforms to the following product specifications:

- Safety: EN 60950,
- EMC: EN 301489,
- Radio: EN 300220.

We herewith declare that the above mentioned product
complies with the requirements of the following directives:

- R&TTE 99/05/EC,
- 73/023/ECC,
- 89/336/ECC.

Grzegorz Pych
President of the Board
Warszawa 1.09.2009

PYCH International Electronics
Electronics Design Studio

*www.**clone**plus.com*