



EAN code
eLAN-IR-003: 8595188185080

Technical parameters	Connection Server II
Power:	USB Type-C PD 2.0 with 9V/2A, 12V/2A, 15V/2A, 20V/2A
Video Output:	HDMI
Audio Output:	3.5mm jack with mic
Processor (CPU):	64bits hexa core processor, Dual Cortex-72, frequency 1.8GHz with qual Cortex-A53, frequency 1.4GHz
Memory (SDRAM):	4 GB
Communication Interface:	Gigabit Ethernet, dual-band 802.11ac WiFi 5, Bluetooth 5.0
Connecting peripherals:	2x USB 3.0, 2x USB 2.0
Dimensions:	92,9 x 65 x 50,6 mm (l,w,h)

- The connection server is providing a communication environment between iNELS BUS System with the third party devices, for which their protocols are also translated and submitted.
- The iNELS application's environment enables us to control all these technologies from just one app.
- If the connection server is present in the installation, then it enables option for controlling the installation - lighting, blinds, heating, etc., also IP cameras, intercom, air conditioning.
- It also allows the communication with the domestic voice intercom 2N. It can also arrange the information from the weather station Giom or data from energy meters (electricity, water, gas), which is visualized in clear graphs.
- The device connection server uses the Rock Pi hardware and the apps requires a license relative to the MAC address of the device.
- While connecting with the devices connection server, it's recommended to use an uninterruptible power supply (UPS), which ensures that, there will be no power outage.
- As a part of the package, we also included an SD card where we previously installed Linux OS on it and its needed software equipment.
- The configuration is happening on its own web interface, where the default IP address is not fixed. (The IP address is assigned from the DHCP server and it's needed to be known when we're connected to the network).

These protocols are being translated:

- XML RPC (for communication with iNELS/iHC applications, Connection Server controls access to the central unit of iNELS/iHC applications and allows access to it from multiple devices).
- ELKONET (for communication with the iNELS central unit).
- VAPIX2, VAPIX3, ONVIF for cameras (which enables streaming up to 9 camera pictures together, PTZ controlling, recording on a network drive).
- Coolmaster (for communication with AC Daikin VRV, Sanyo VRF, Toshiba VRF, Mitsubishi Electric VRF, LG VRF, Fujitsu VRF, Mitsubishi Heavy VRF, Hitachi VRF).
- Atrea, AirPohoda (recuperation).
- NILAN (indoor climate solutions).
- SIP for domestic voice communication, for example: 2N (a communication between the iNELS/iHC app or between individual iNELS/iHC apps - VoIP).
- Giom3000 (displaying values from the weather station in the iNELS/iHC app and using the information about the temperature, humidity and wind speed to an subsequent event, for example removing the shutters).

Infrastructure example

