

# Technical certificate, instructions for storage, installation and exploitation

## HS Server

### 1. Function and application

The device is designed for installation in home automation projects, buildings and apartments within any automation equipment. It collects, stores, processes and transmits data received via network and field interfaces.

The functionality depends on the applied software and license.

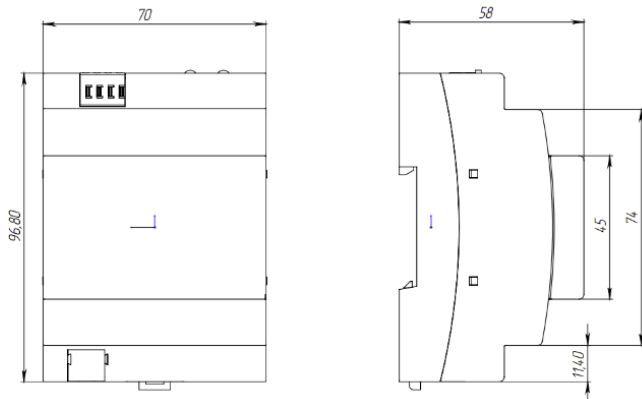
Link to electronic version of the documentation:

[https://dev.irdi.com/iRidi\\_HS\\_Server/en](https://dev.irdi.com/iRidi_HS_Server/en)

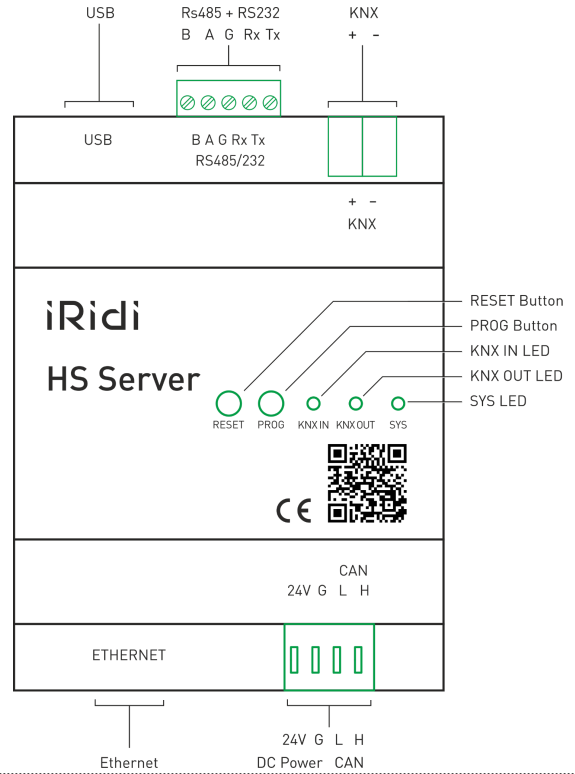
### 2. Technical specification

Processor	RK3399 Rockchip 2 x Cortex-A72 2000 MHz, 4 x Cortex-A53
RAM	2 Gb, DDR4
Non-volatile memory	16 Gb, eMMC Flash
Real-time clock (RTC)	is included, lithium battery CR1220
Interfaces:	
	Ethernet 100 Мбит/с
	USB Type-A (F) (USB 2.0)
	RS-485 (with galvanic isolation)
	RS-232 (with galvanic isolation)
	KNX TP1-256
	CAN (Bus77)
Power supply	24V DC
Power consumption	max 30W
Working temperature, °C	From 0 to +50 C
Size (WxHxL), mm	70x97x58 (4 DIN)
Installation	on DIN
Case material	polycarbonate
Weight, g	200
Color	black
Operating system	Linux

### 3. Size



### 4. Terminals and indication



Upper jacks (left to right)	
USB	Jack for USB connecting sticks Z-Wave, Zigbee, offline license key
Jack connection RS232, RS485	Pin sequence (left to right): RS485 B RS485 A RS485 /RS232 GND RS232 Rx RS232 Tx
KNX TP1-256	Jack for bus connection KNX. Pin sequence (left to right): KNX + KNX -
Lower jacks (left to right)	
Ethernet	Jack for connecting to a computer network
CAN + power supply	Pin sequence (left to right): 24V GND CAN L CAN H

#### Buttons:

RESET - holding the button for more than 5 seconds restarts the device.  
 PROG - holding the button during system startup puts the device into recovery mode. Other functionality is determined by the application software.

#### LED:

KNX IN — functionality depends on the application software.  
 KNX OUT — functionality depends on the software.  
 SYS — system RGB LED, server operation mode:

- red - the system is loading or waiting to be loaded
- blue - the system is in recovery mode
- green - the system is in operation mode

### 5. Features

- IP address of the device by default 192.168.77.77
- MAC address of the device starts with 42-77-66-xx-xx-xx

**6. Connection and installation**

Use cable — twisted pair UTP, FTP from CAT5 and above for power and bus connection:

- ONLY copper cores
- DIAMETER (NOT core cross-sectional) from 0.51 mm (AWG 24)
- Ohmic resistance should be no more than 9.4 ohms per 100 meters
- 2 cores per bus, 2 cores for power, 4 cores reserve

Self-clamping jack.

The device is mounted on a 35mm wide DIN rail.

Installation and maintenance of the product should only be carried out by qualified specialists with compliance with safety measures. All connection work must be carried out **only** when the voltage is turned off.

**7. Proper use**

CAN, KNX, RS485 bus devices are connected to the device via jacks. IP devices with RS232 support are connected via LAN interface  
 Data exchange with the device is carried out using the installed software.  
 The data received from the devices are processed, written to a database and sent to the visualization panels for display in the graphical interface.  
 The logic of receiving, processing, transmitting, saving data is set by the user of the system in the specialized software.  
 The functionality of the device is determined by the installed application software and the license for this software.

**8. Maintenance**

If a malfunction is detected during maintenance immediately disconnect the device from the power supply and contact service staff. Repairs during the warranty period and maintenance service of the device are carried out by the manufacturer of the device.

**9. Storage, transport, service life.**

The products must be stored in packaging at a temperature ranging from 0°C to +40°C and a relative humidity of up to 80% in heated and naturally ventilated warehouses. In air-conditioned storages, in the absence of aggressive impurities, conductive dust, acid and alkali vapors, as well as gases that cause corrosion and destroy the insulation. The products should be transported in packaged form in containers, closed railroad cars, heated sealed compartments of aircraft and cargo holds, by road transport with protection against precipitation over any distance at temperatures from -50 °C to +50°C, with relative humidity up to 100% at 25°C. It is necessary to ensure that the products are protected from dust and atmospheric precipitation during transportation. The average service life of the product is at least 5 years.

**10. Manufacturer warranty**

The warranty period is 24 months from the date of sale.  
 Without a note of sale the warranty period starts from the date of manufacture.  
 The manufacturer's warranty does not apply in cases of traces of mechanical damage to the device; moisture ingress; exceeding the permissible supply voltage; improper connection of the device; in cases where modifications or changes to the device or its connection schemes have by the buyer or third parties without the manufacturer's consent; in cases where the device is used by the buyer or third parties for purposes

other than intended. The manufacturer's warranty does not apply in cases of non-compliance with the conditions of transportation, storage, operation, installation of the device and maintenance of the premises, as specified in this passport and operational documentation, as well as the occurrence of other circumstances beyond the control of the manufacturer.

**11. Completeness**

HS Server .....1 pc.  
 120 Ohm termination resistors ..... 2 pcs.  
 Passport .....1pc.  
 Packaging .....1pc.

**12. Disposal**

At the end of its service life the product must be disposed of in accordance with the legislation of the country of residence.



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