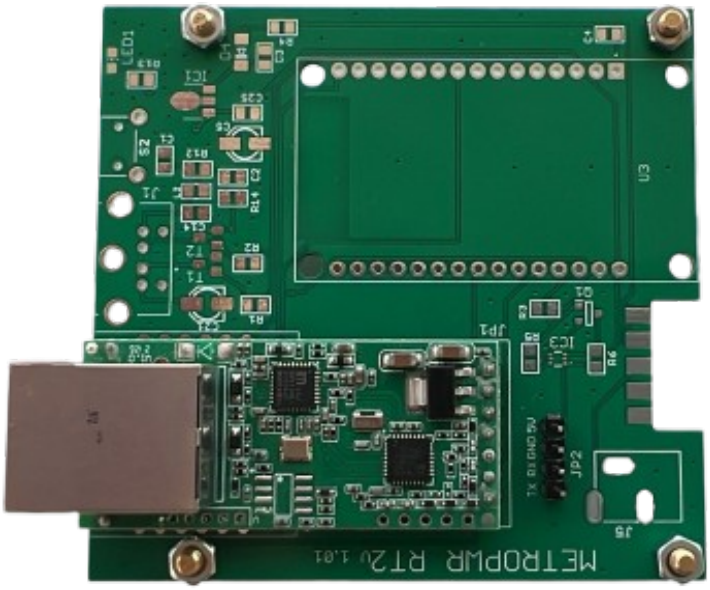
Version 1.0.1

www.metropwr.com

FXLAN INTERFACE

USER MANUAL



SAFETY INFORMATION

Handle your FXLAN with care.It may be damaged if it is **dropped, burned, punctured, broken,** or comes into contact with **liquids**. Do **not** use the FXLAN if it appears to be damaged.

Repairs. Do not open or attempt to repair the FXLAN yourself. Disassembly may damage the device or result in **personal injury**.

Electrostatic Precautions Handle the **PCB with care.** Avoid electrostatic discharges (ESD), as they may damage the electronic components.

Avoid placing the **PCB** on **metal surfaces**, as this may cause **short circuits**.

Do not modify the **circuit**; leave it in its **original manufactured state**. Any modifications may damage the rotor controller.

Disposal of Electrical & Electronic Equipment. This symbol indicates that this RAEE product should not be treated as household waste. Instedhand it over to the appropriate collection point for recycling of electrical and electronic equipment which will conservenatural resources. If it is not possible to deliver to a collection point, it can be disposed of through your local retailer.

Important Information

Read all **operating instructions, safety tips, and warnings** in the instruction manual.
Identifying potential hazardous situations and following the appropriate safety rules will help **prevent accidents**.
Avoid dangerous situations to **eliminate all risks** described above.
Never use the FXLAN **interface** inappropriately; always operate it **as described in the user manual**.
The manufacturer is **not responsible** for incorrect measurements or calibration errors.
The manufacturer **reserves the right** to update the technical information contained in this manual **without notice**.

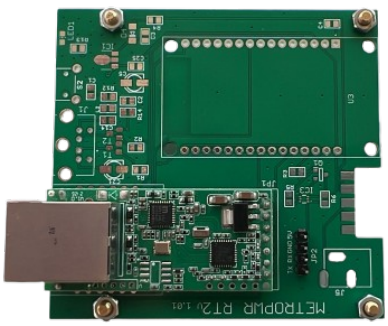
INTRODUCTION

FXLAN Interface – Operation and Features

The **FXLAN interface** connects directly to the **FX775** and **FX775 MK1** Wattmeters, enabling fast and reliable LAN communication. Once the flat cable is plugged into the **JP2 connector**, the interface is ready for use. FXLAN features a **built-in web server**, allowing you to easily configure all **network parameters** (IP, gateway, DNS, etc.) directly from any browser. It supports **simultaneous connections from 4 up to 16 computers**, making it ideal for shared station monitoring or multi-operator environments.
With FXLAN, users can remotely monitor and control all power and antenna parameters using **Metropwr software** or SDR applications installed on **different Windows and macOS systems**, either on the local network or via the Internet.

Key Features:

- Compatible with FX775 and FX775 MK1
- Compatible with FX773 (but mounted externally)
- 10/100 Mbps LAN port
- Fast and stable communication
- Built-in LAN watchdog for secure connections
- Integrated web server for network configuration
- Supports 4–16 simultaneous PC connections
- Works with multiple Windows and macOS installations
- Full remote control and monitoring via LAN or Internet

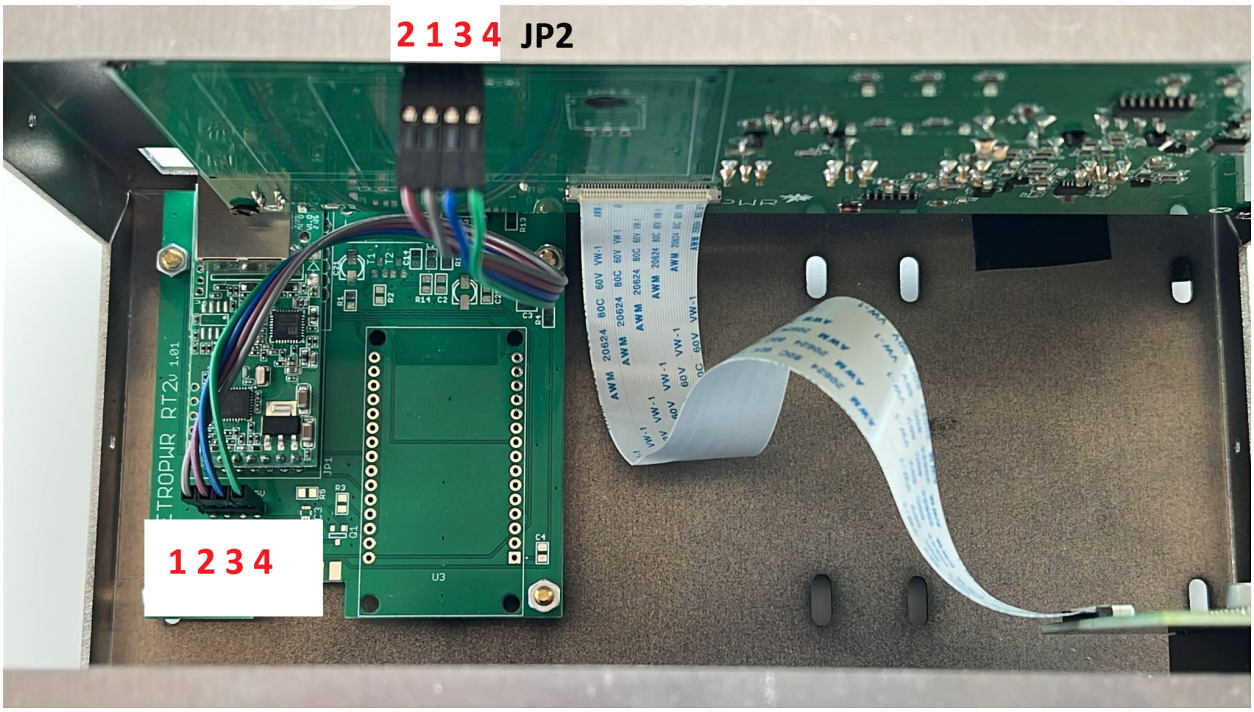


Note: Before ordering the FXLAN board, check that your Wattmeter has the **JP2 connector** installed.

INSTALLATION

FXLAN Interface – Installation

The FXLAN board is mounted as shown in the picture, using four brass spacers to ensure a stable and secure installation inside the unit.
The connection to the Wattmeter is made through a **4-pin flat cable**. Two pins provide the **5 V power supply**, while the other two pins are used for the **serial communication**.
Make sure to connect the cable exactly as shown in the picture, with **RX and TX crossed**, to ensure proper data transmission between the FXLAN interface and the Wattmeter.



Note: Be careful to connect the flat cable as in the photo, **pin 1,2 are crossed**.

SOFTWARE

Software Application Configuration

The Metropwr software works with both **LAN** and **USB** connections and is compatible with **Windows** and **macOS**.
Configuration via **LAN** is done through the **Setup menu**, where you can enter all required **network parameters** such as IP address, port number and other connection settings.
For **USB configuration**, the communication port is selected directly in the application by using the **up/down arrows** to set the correct **COM port**.
All configuration parameters are automatically **saved in a file**, including the **window position** on the screen, so the software will restore the previous layout at the next startup.

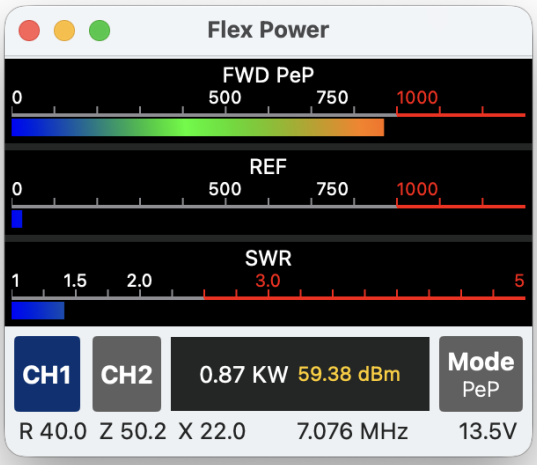
macOS Apple Silicon App Installation

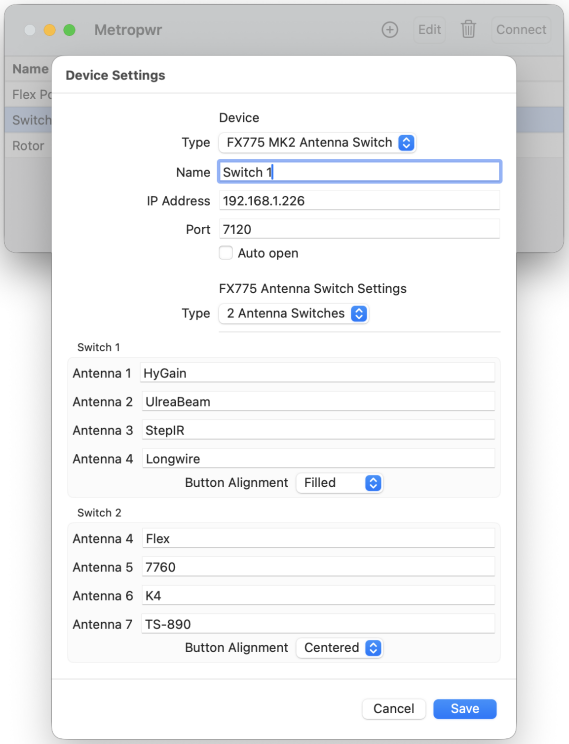
Metropwr has developed an app for **macOS Apple Silicon**.
Follow these steps to install and run it:

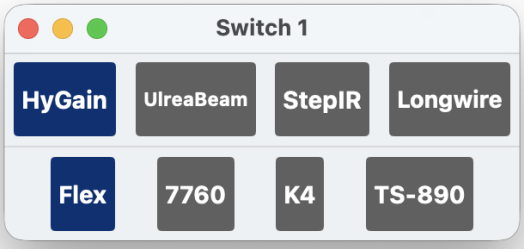
- Download the App from the website
- Copy the app file to Desktop
- Open Terminal and enter the following command:
- find ~/Desktop -name "*.app" -exec xattr -d com.apple.quarantine {} \;
- Launch the application

Note: This procedure allows the app to run **without security warnings**.
It must be performed on **every new Mac computer**.

SSDR CONTROL







MacOS SDR-Control Software

The FXLAN interface is fully compatible with **SDR Control software**, enabling advanced remote operation.
You can **configure the FX775 MK2 Power Meter and the Antenna Switch separately**, manage power and antenna parameters in real time, and monitor your station directly from the SDR Control interface.

For complete setup details and additional features, please refer to the **user manual**:

Marcus & Jan Roskosch website:

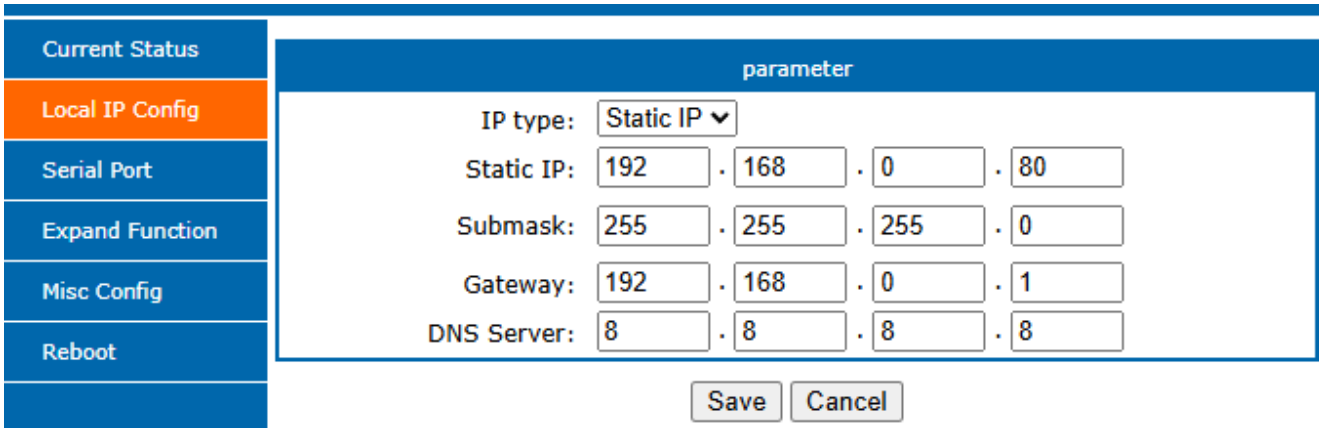
https://documents.roskosch.de/sdr-control-mac/index.html#document-tools-common/02_tool_metropwr

WEB MENU

Web Interface Access

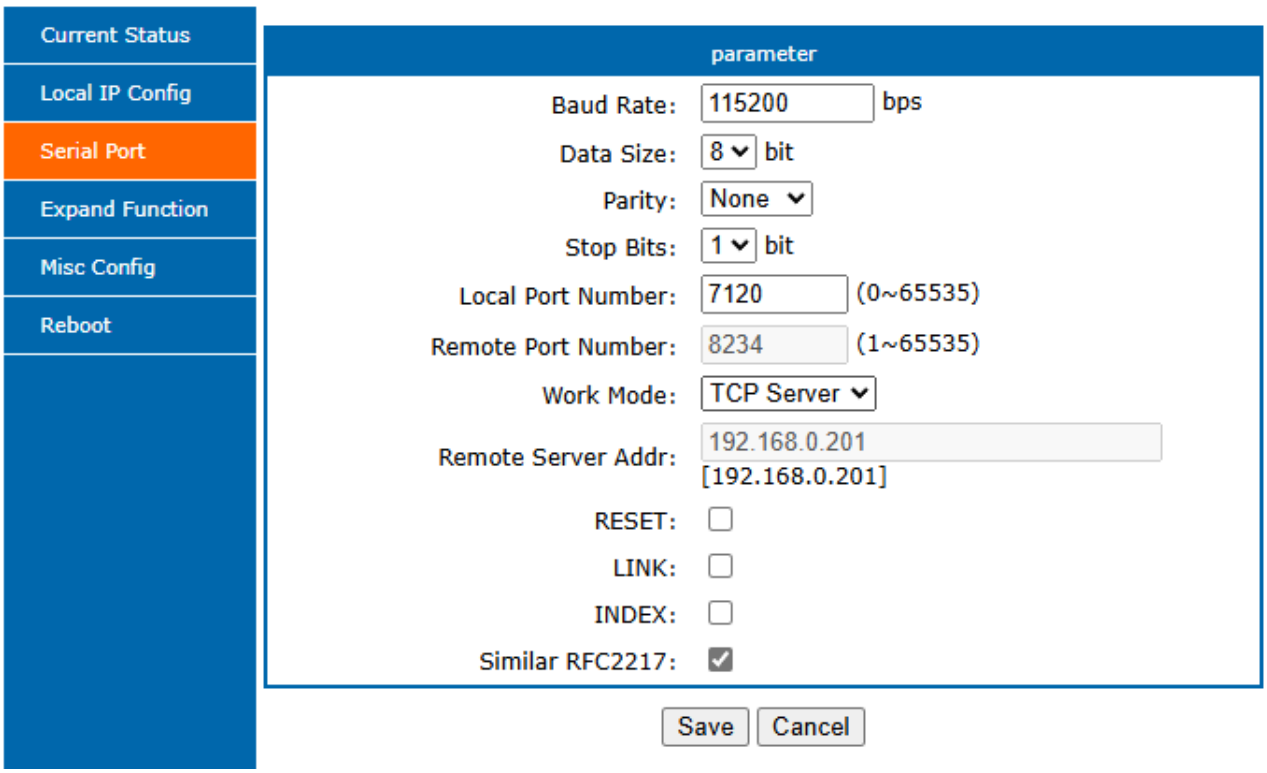
To access the RT1 interface via a browser, enter its **IP address**.
A **login window** will appear:

- **Username:** admin
- **Password:** admin



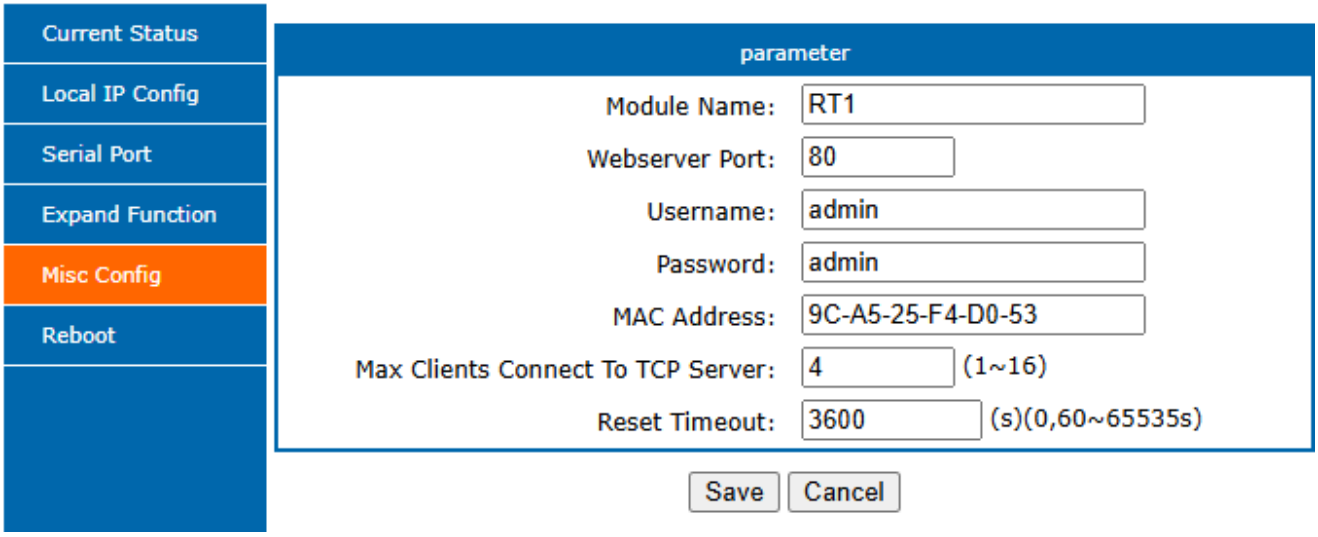
Serial Port and Work Mode Settings

Do **not** change the **serial port parameters** (115200 / 8 / 1) or the **Work Mode** (TCP Server).
If necessary, only modify the **Remote Port Number**, which defaults to **712**.

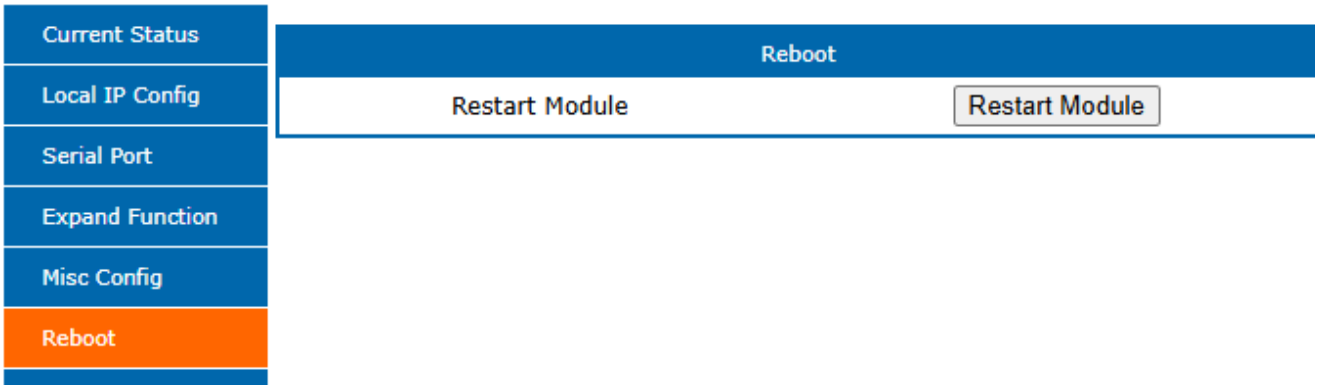


User Settings

From this menu, you can change the **login password** and **interface name**.
The default **maximum number of client connections** is **4**, allowing up to **four clients** to log in simultaneously.



Remote Restart



This menu allows you to **remotely restart the RT1 interface**.

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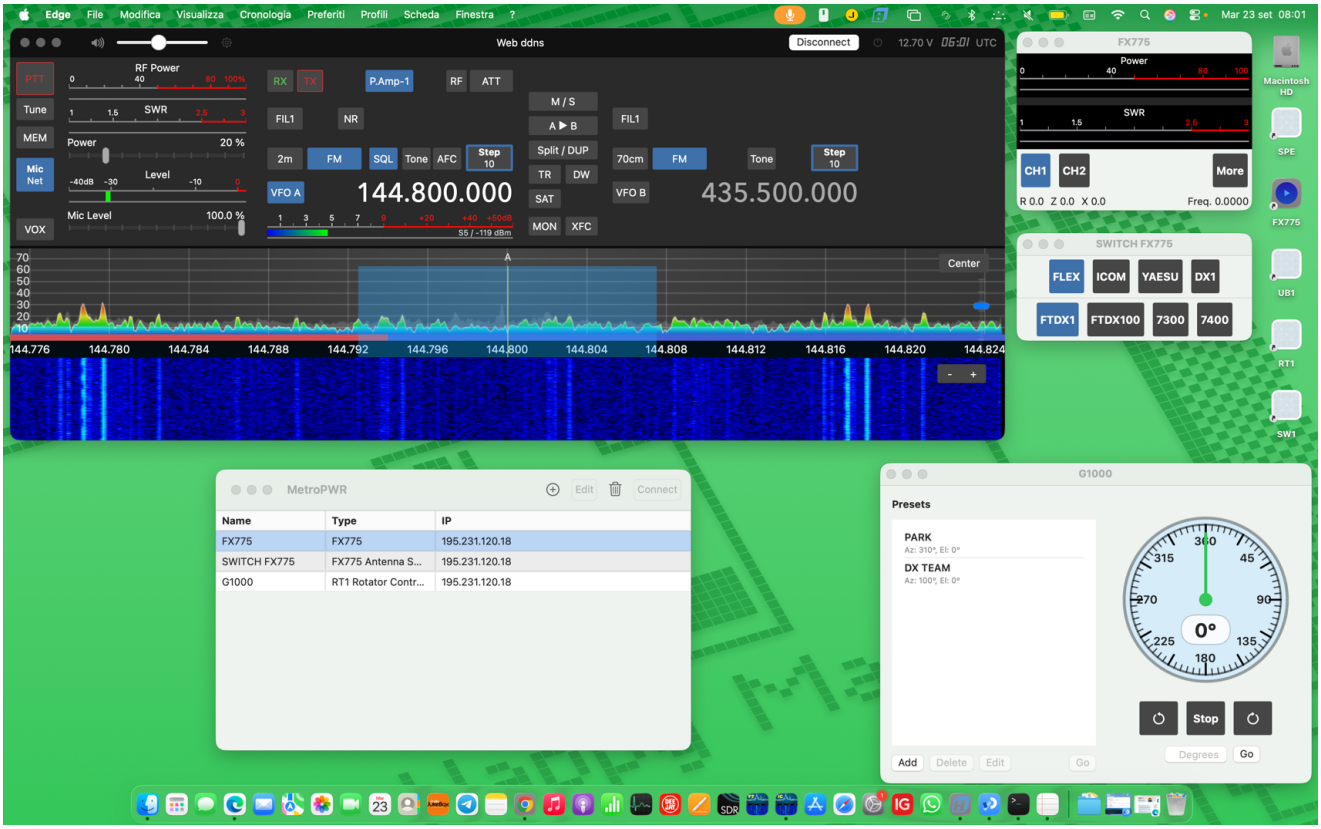
SDR CONTROL FOR MAC

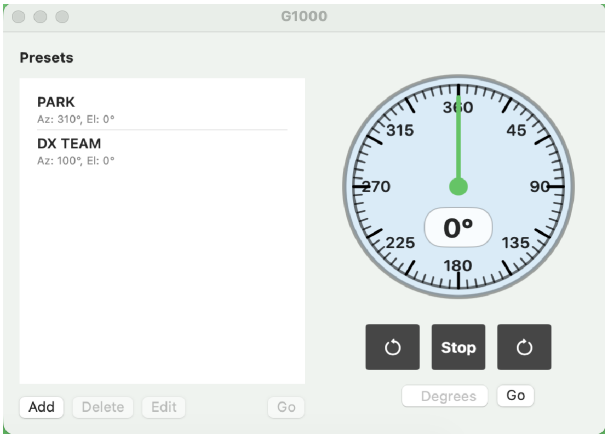
Third-Party Software Compatibility

The **RT1 interface** is compatible with Mac software such as **SDR-CONTROL**.
This application can be used to **remotely control the rotor via the internet**.



Rotor Management Interface

This interface is used for **managing the rotor**.
It also allows you to **set presets** along with their corresponding **custom labels**.



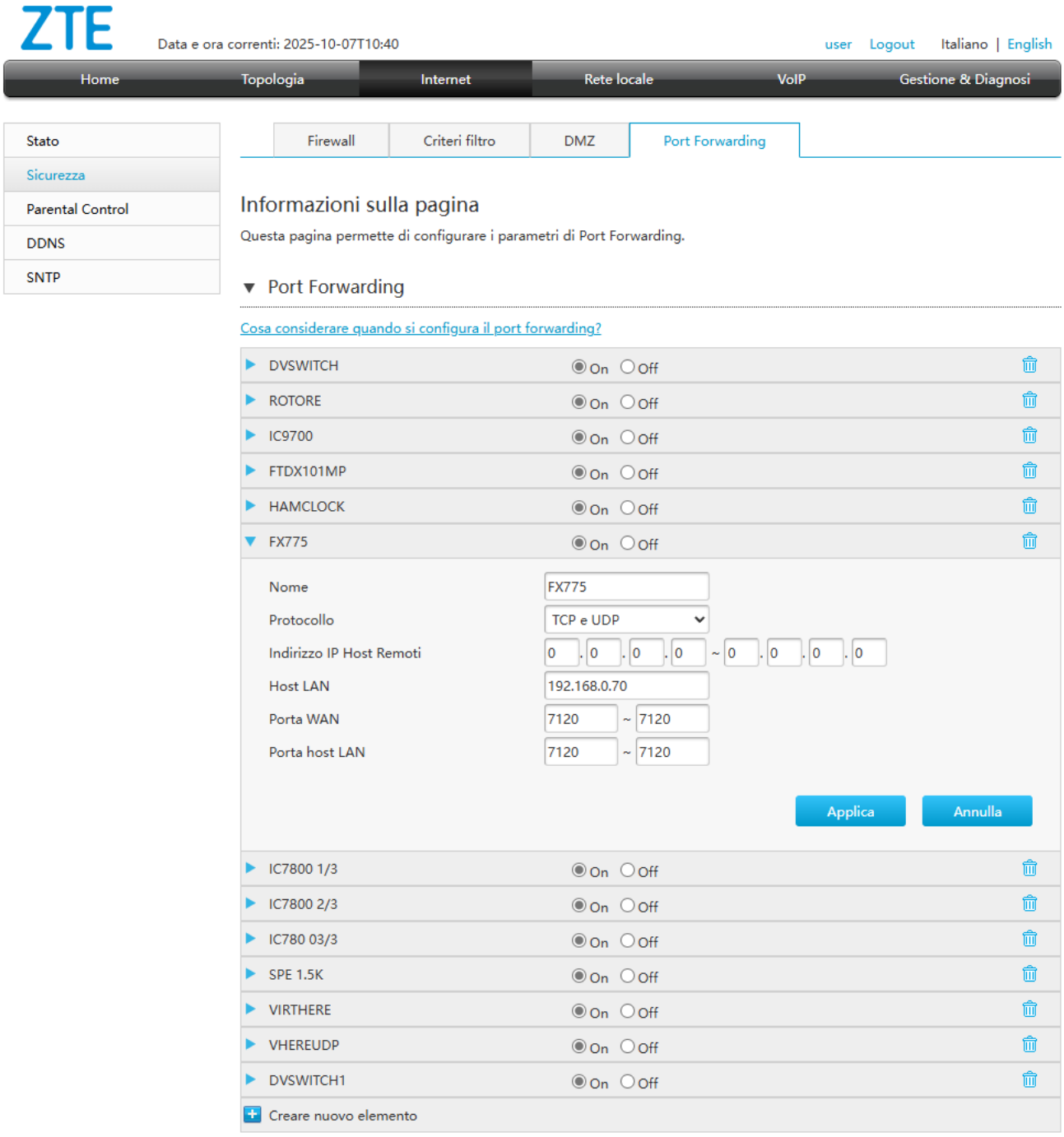
For detailed configuration instructions, please refer to the

Marcus & Jan Roskosch
website: https://ham-radio-apps.com/

ROUTER CONFIG

Remote Internet Access

To access the RT1 interface remotely via the internet, a **DDNS service** is required, such as www.no-ip.com or another provider.
Alternatively, a **fixed IP address** can be configured.
After obtaining a **DDNS or internet-accessible IP address**, you must **open port 7120** on your router, as illustrated in the diagram.



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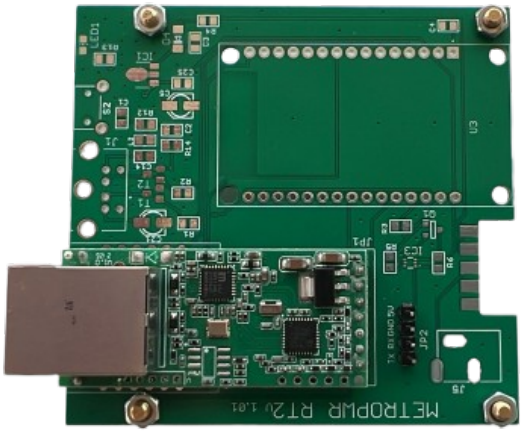
TECHNICHAL CHARACTERISTICS



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Note: Technical specifications are subject to change **without notice**.