

UC-7112-LX Plus

Universal communication module

SW version 1.0.0

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1 Document information

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1.1 Clarification of notation

Note: This type of paragraph calls readers attention to a notice or related theme.

IMPORTANT: This type of paragraph highlights a procedure, adjustment etc., which can cause a damage or improper function of the equipment if not performed correctly and may not be clear at first sight.

Example: This type of paragraph contains information that is used to illustrate how a specific function works.

1.2 About this guide

This guide describes how to configure UC-7112-LX Plus module and where you can download predefined configuration. For electrical and mechanical specification, please use [datasheet](#).

1.3 Legal notice

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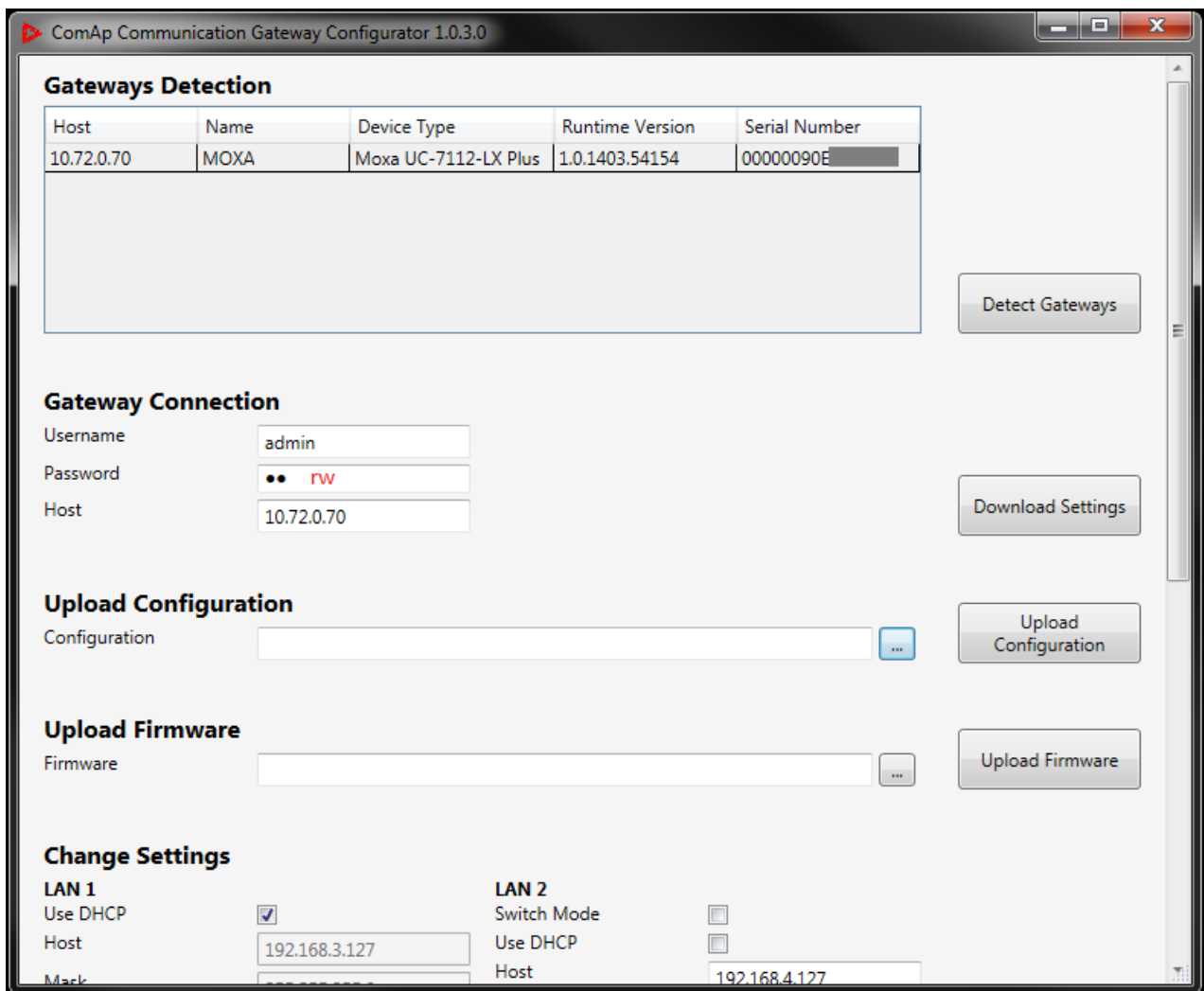
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2 Configuration of the Module

For configuring the module is made „ComAp Communication Gateway Configurator“ PC based application.

- ▶ Click on „Detect Gateways“ button. Then you should see all connected gateways. For configuring you need to be in the same Local Area Network as UC-7112-LX Plus is.
- ▶ Then click on detected gateway. Type Username and Password and click „Download Settings “.

IMPORTANT: Default Username is „admin “. Default Password is „rw“. Default IP address for LAN1: 192.168.3.127 and for LAN2: 192.168.4.127.



2.1 Uploading configuration

Select configuration file and click „Upload Configuration “. Predefined configuration is available at <https://www.comap-control.com/products/communications/uc-7112-lx-plus>



If you need configuration for device which is not supported, please contact ComAp technical support or your local distributor.

2.2 Updating firmware

Download new firmware from ComAp website <https://www.comap-control.com/products/communications/uc-7112-lx-plus>

Select downloaded file and click „Upload Firmware “. Actual firmware is also inside package of “ComAp Communication Gateway Configurator”.

Note: After uploading firmware the UC-7112-LX Plus needs to be restarted. This operation can take up to 5 minutes

Upload Firmware

Firmware

2.3 Change settings

It is possible to change some settings of Gateway. It is possible to change IP address for both LAN ports.

It is also possible to change Username and Password.

Note: Checkbox “Proxy Enabled” is for remote configuration from ComAp technical support. In normal operation left this option unmarked.

Change Settings

| | |
|--|--|
| <p>LAN 1</p> <p>Use DHCP <input checked="" type="checkbox"/></p> <p>Host <input style="width: 100%;" type="text" value="192.168.3.127"/></p> <p>Mask <input style="width: 100%;" type="text" value="255.255.255.0"/></p> <p>Default Gateway <input style="width: 100%;" type="text" value="192.168.3.1"/></p> <p>DNS <input style="width: 100%;" type="text" value="192.168.3.1"/></p> <p>Proxy Enabled <input type="checkbox"/></p> <p>Proxy Id <input style="width: 100%;" type="text"/></p> <p>Proxy URL <input style="width: 100%;" type="text"/></p> <p>Keep-alive Period <input style="width: 100%;" type="text" value="10"/></p> | <p>LAN 2</p> <p>Switch Mode <input type="checkbox"/></p> <p>Use DHCP <input type="checkbox"/></p> <p>Host <input style="width: 100%;" type="text" value="192.168.4.127"/></p> <p>Mask <input style="width: 100%;" type="text" value="255.255.255.0"/></p> <p><input type="checkbox"/> Change Credentials</p> <p>Username <input style="width: 100%;" type="text" value="admin"/></p> <p>Password <input style="width: 100%;" type="text"/></p> |
|--|--|

2.4 Download Log

Downloading log is useful for troubleshooting with ComAp technical support or for getting [AirGate](#) ID in case you are using module for www.websupervisor.net.

Download Log

AirGate ID **ae1** **3**

```
[31.03 09:28:48.598] <-> Unspec: Waiting for thread 'AirEngine' end
[31.03 09:28:48.750] <-> Unspec: Thread AirEngine stopped
[31.03 09:28:48.770] <-> Unspec: Join - Thread 'AirEngine' ended
[31.03 09:28:48.779] ExecThread: RT stopped
[31.03 09:28:48.786] <-> ExecThread: Online changes not requested
[31.03 09:28:48.795] ExecThread: Stopping LCD menu system
[31.03 09:28:48.803] <-> Unspec: Waiting for thread 'HmiEngine' end
[31.03 09:28:48.829] <-> Unspec: Thread HmiEngine stopped
[31.03 09:28:48.839] <-> Unspec: Join - Thread 'HmiEngine' ended
[31.03 09:28:49.375] <-> Unspec: Scheduling params: min = 1, max = 99, base = 60, RTmin = 1, RTM
[31.03 09:28:49.385] ExecThread: Starting LCD menu system
[31.03 09:28:49.395] <-> Unspec: Thread HmiEngine started
```

Download Log

3 Communication options

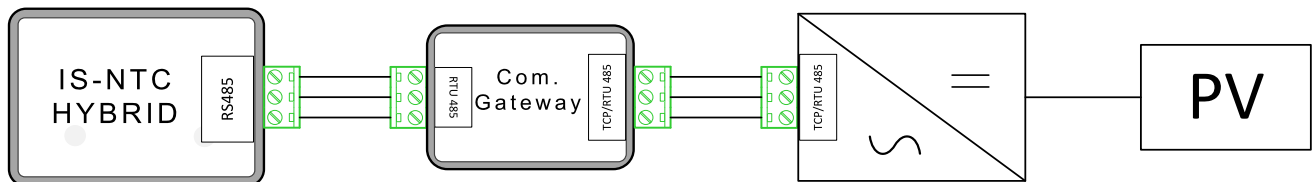
This chapter describes typical usage of UC-7112-LX Plus communication gateway module.

3.1 Communication with PV inverters

With proper configuration UC-7112-LX Plus can manage communication with photovoltaic (PV) inverters and share this data to [InteliSys^{NTC} Hybrid](#) controller. For each kind of PV inverter, you need appropriate configuration file which can be downloaded at <https://www.comap-control.com/products/communications/uc-7112-lx-plus>

Note: Available communication for PV inverter is Modbus RTU (RS485, RS422 or RS232) or Modbus TCP (Ethernet).

Note: If you didn't find your PV inverter in list of supported inverters, contact your local distributor or [ComAp technical support](#)



3.1.1 Settings InteliSys^{NTC} Hybrid

[InteliSys^{NTC} Hybrid](#) needs to be configured properly to establish connection with UC-7112-LX Plus. RS485(2) port is dedicated for connection UC-7112-LX Plus

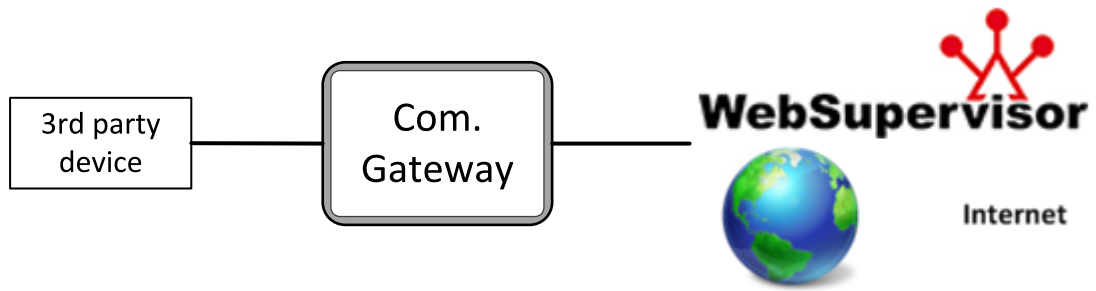
| Setpoints - Comms settings | Value |
|----------------------------|---------------|
| RS232(2) mode | MODBUS-DIRECT |
| RS232(2)MBCSpd | 57600 bps |
| Contr. address | 32 |

3.2 Communication with 3rd party devices

UC-7112-LX Plus can be a communication gateway between 3rd party devices and ComAp [WebSupervisor](#). UC-7112-LX Plus obtains data from Modbus 3rd party device and transfers this data to the [WebSupervisor](#). Communication channel is ethernet connection with RJ45 connector.

Note: This feature is available at WebSupervisor Pro paid version.

Note: If you didn't find your 3rd party device in list of supported devices, contact your local distributor or [ComAp technical support](#)



3.3 Communication with MTU MIP4000

UC-7112-LX Plus enabling the connection between MTU MIP4000 engine controller and ComAp controller. For more information please refer [Electronic Engines Support 05-2017](#) or newer.