

# User Manual

## SP7040200

4-Port IP switched PDU with  
integrated energy metering and  
monitoring per outlet



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Version: SP7040200\_2023V1.0


## Preface

Read this user manual carefully before using the product. Pictures shown in this manual are for reference only. Different models and specifications are subject to real product.

This manual is only for operation instruction of SP7040200, please contact the local distributor for maintenance assistance. The functions described in this version were updated till July, 2023. In the constant effort to improve the product, we reserve the right to make functions or parameters changes without notice or obligation. Please refer to the dealers for the latest details.

**All product function is valid till 2023-07.**

## Trademarks

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## FCC Statement

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation.

Operation of this equipment in a residential area is likely to cause interference, in which case the user at their own expense will be required to take whatever measures may be necessary to correct the interference.

Any changes or modifications not expressly approved by the manufacture would void the user's authority to operate the equipment.



## **SAFETY PRECAUTIONS**

To ensure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Unpack the equipment carefully and save the original box and packing material for possible future shipment.
- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- Do not dismantle the housing or modify the module. It may result in electrical shock or burn.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Refer all servicing to qualified service personnel.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Do not put any heavy items on the extension cable in case of extrusion.
- Do not remove the housing of the device as opening or removing housing may expose you to dangerous voltage or other hazards.
- Install the device in a place with fine ventilation to avoid damage caused by overheat.
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Unplug the power cord when left unused for a long period of time.
- Information on disposal for scrapped devices: do not burn or mix with general household waste, please treat them as normal electrical wastes.

## **Table of Contents**

1. Introduction .....	1
1.1 Product Introduction .....	1
1.2 Features .....	2
1.3 Package List .....	2
2. Panel Description .....	3
3. System Connection .....	4
3.1 Usage Precaution .....	4
3.2 System Diagram SP7040200 .....	4
4. Use Cases .....	5
4.1 Locations .....	5
4.2 Application .....	5
5. GUI Control .....	6
5.1 Dashboard .....	7
5.2 Network .....	8
5.3 Schedule .....	9
5.4 Protocols .....	10
5.4.1 SNMP .....	10
5.4.2 Telnet .....	11
5.4.3 SSH .....	12
5.4.4 MQTT .....	13
5.4.5 Modbus TCP .....	14
5.5 Email .....	15
5.6 Clock .....	16
5.7 System .....	17
5.8 Security .....	18
5.9 Maintenance .....	19
6. TCP/IP Control .....	20
6.1 Parameter setting .....	20
6.2 TCP/IP Commands .....	20
7. Specification .....	24

## **SP7040200: Smart PDU – 4-Port IP switched PDU**

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8. Panel Drawing .....	25
9. Troubleshooting & Maintenance .....	26
10. Customer Service .....	27

## **1. Introduction**

### **1.1 Product Introduction**

Thanks for choosing the 4 Port IP switched PDU with integrated energy metering and monitoring functionality per outlet and redundant TCP/IP port.

The SP7040200 is designed for power control and monitoring. It supports up to AC110V~250V 10A IEC C14 power input and four 10A IEC C13 outlets.

The SP7040200 supports power control and monitoring per port via TCP/IP, which provide multiple network protocols and IoT protocols.

### **4-fold switched and outlet-metered PDU**

**SP7040200 for more operational security and energy efficiency in small installations**

- ✓ **Demonstrably fewer and shorter outages** of your critical IT and AV infrastructure
- ✓ **Compact housing design** allows space-saving integration even in confined AV environments such as media furniture
- ✓ **Detect AV and IT problems at an early stage:** Proactive power monitoring
- ✓ **Measurably increased energy efficiency (Green IT and AV):** Electricity cost and CO2 savings through controlled switching off of devices
- ✓ **Fix AV and IT problems quickly and effectively:** Remote reboot

#### **Switched**

The PDUs dispose on the rear side of 4 load outlets IEC C13. This allows connected devices to be switched off and on in the event of a fault. Furthermore, the devices can be controlled on schedule due to integrated timer functions.

#### **Outlet-Metered**


Integrated energy meters on outlet level help to ensure a sustainable operation of the infrastructure. In addition, the user receives warnings when the too large currents occur.

### 1.2 Features

- 4x 10A IEC C13 Power Ports individually switchable and measurable
- 1x 10A universal IEC C14 male power input
- Status and Power-up delay adjustable individually for each Power Port after power blackout
- Current peaks during simultaneous switching operations are prevented by adjustable latency time
- Programmable timetables and turn-on/turn-off sequences
- Monitoring and statistics of voltage, current, power, and energy consumption data
- Switch control, current and power consumption monitoring
- Comfortable configuration by web browser  
Provide remote monitoring, monitoring and configuration through Web-GUI
- 2x redundant backup TCP/IP network ports to provide uninterrupted network services
- Safety features: overload protection, interference filtering, wiring error protection, remote login verification
- Supports multiple network protocols and IoT protocols
- IPv6-ready
- Low internal power consumption

### 1.3 Package List

- 1x SP7040200: 4-Port IP switched PDU with energy measuring and monitoring per outlet and redundant TCP/IP port
- 1x Mounting Kit
- 1x Power Cord
- 1x User Manual

 **Note:** Please contact your dealer immediately if any damage or defect in the components is found.

## 2. Panel Description

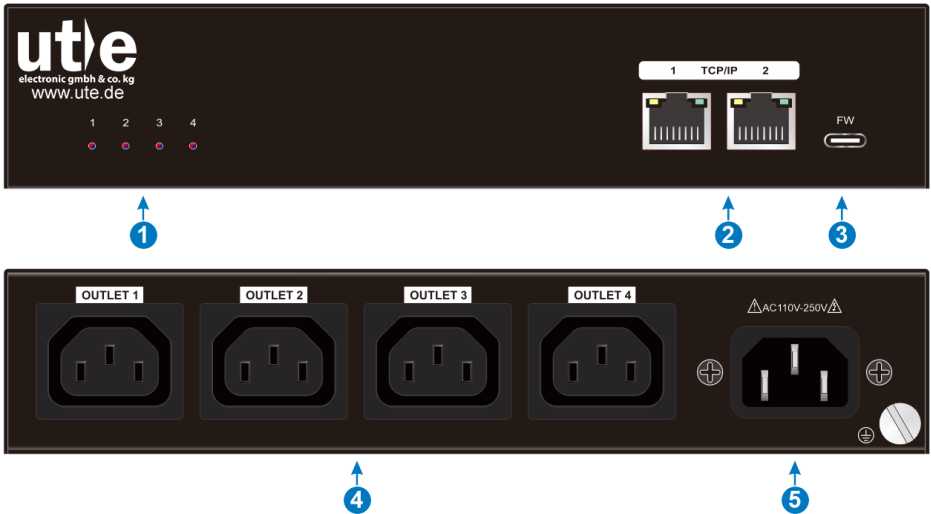


Figure 2-1 Panel Description SP7040200

- ① **Power LED:**
  - Steady blue: Normal power supply;
  - Flashing blue: Delay state before ON;
  - OFF: Power Supply is completely OFF;
  - Steady red: The outlet is overloaded;
  - Flashing red: The outlet is restarting.
- ② **TCP/IP:** Two TCP/IP ports for connecting to PC or network device to achieve the GUI control of SP7040200.
- ③ **FW:** 1x USB-C for firmware upgrade.
- ④ **Outlet:** 4x IEC C13 connector for the power output.
- ⑤ **AC 110~250V:** 1x IEC C14 connector for power input.

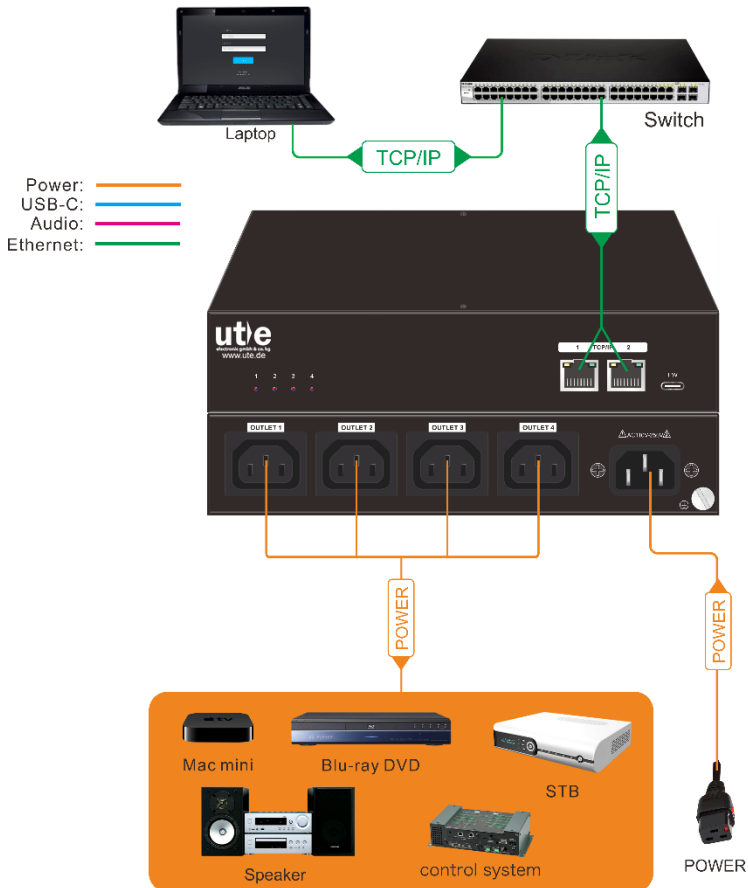


### 3. System Connection

#### 3.1 Usage Precaution

- Make sure all components and accessories included before installation.
- System should be installed in a clean environment with proper temperature and humidity.
- All of the power switches, plugs, sockets, and power cords should be insulated and safe.
- All devices should be connected before power on.

#### 3.2 System Diagram SP7040200



## **4. Use Cases**

### **4.1 Locations**

- AV environments: Huddle rooms, conference rooms, theaters, cinemas, marine environments, smart home, meeting rooms, courtrooms, lecture halls in universities, LED walls or digital signage systems (DooH)
- Industrial environments: Production facilities, solar installations, manufacturing rooms, warehouses or test labs
- IT installations: distributed infrastructures, equipment rooms, KVM, network closets, server racks, 19" cabinets, data centers or server rooms

### **4.2 Application**

- Switching of network or media devices
- Remote reboot of PCs, servers, routers and switches
- Reduction of power consumption and thus lower CO2 emissions from standby devices
- Switching and control of servers and IT devices in the server room and data center

## 5. GUI Control

The 4-Port IP switched PDU SP7040200 can be controlled via TCP/IP.

The default IP settings are:

IP Address:

- Port 1: 10.10.0.1 (Fixed address)
- Port 2: 192.168.0.178 (Default static IP, DHCP optional)

Subnet Mask: 255.255.255.0

Gateway: 192.168.0.1

Telnet port: 4001

Type **10.10.0.1** or **192.168.0.178** in your internet browser, it will enter the below log-in webpage:




**Username: admin**

**Password: admin**

Please type the username and the password, and then click **LOGIN** to enter the dashboard.

## 5.1 Dashboard

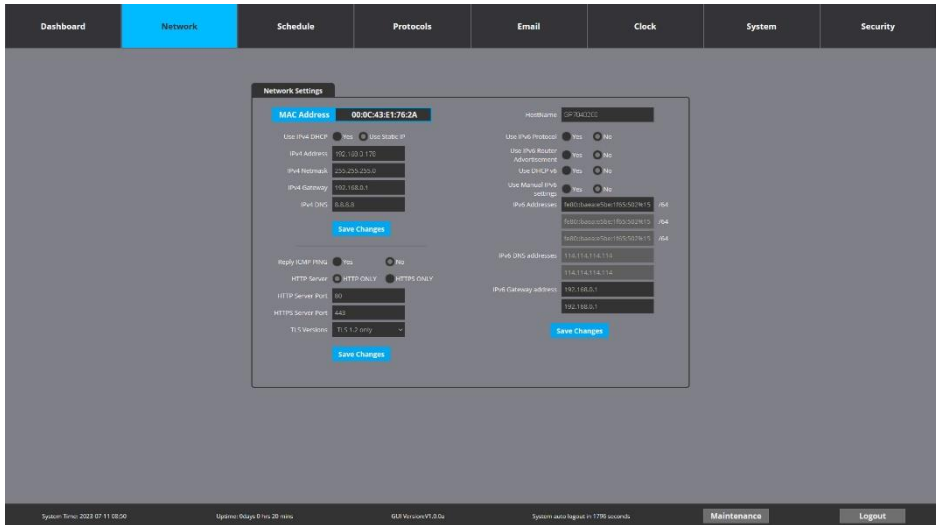


The dashboard features a navigation bar with tabs: Dashboard (active), Network, Schedule, Protocols, Email, Clock, System, and Security. The main content area includes:

- Control buttons: ALL ON, ALL OFF, SYSTEM RESTART, and ALL METERS RESET.
- Summary statistics: Total Current (0.000A), Total Power (0.000W), Total Energy Consumed (0.000000kWh), Voltage (234.314V), Frequency (50.00Hz), and Power Factor (0.00).
- Energy measured since: 2023-07-11 08:50.
- Four outlet panels (OUTLET 1 to 4), each with a status indicator (ON/OFF), current, power, voltage, energy consumed, and power factor.
- A settings panel for OUTLET 1, including:
  - Outlet label: Out 1 (dropdown menu)
  - Outlet initial status: ON (dropdown menu)
  - Outlet the power delay: 1 seconds
  - Out of Power duration: 10 seconds
  - Save Changes button
- Footer: System Time: 2023-07-11 08:50, System Usage: 0 hrs 19 mins, 634.160000V, System user logged in 1770 seconds, Maintenance, and Logout buttons.

- Outlet 1-4: ON/OFF the power, set the label, Re-Power delay and reset duration, select the status.

## 5.2 Network



The screenshot displays the 'Network Settings' configuration page. The top navigation bar includes 'Dashboard', 'Network' (selected), 'Schedule', 'Protocols', 'Email', 'Clock', 'System', and 'Security'. The main content area is titled 'Network Settings' and contains two columns of configuration options, each with a 'Save Changes' button.

**Left Column Settings:**

- MAC Address: 00:0C:43:E1:76:2A
- Use IPv4 DHCP:  Yes /  Use Static IP
- IPv4 Address: 192.168.2.175
- IPv4 Netmask: 255.255.255.0
- IPv4 Gateway: 192.168.0.1
- IPv4 DNS: 8.8.8.8
- Save Changes
- Reply ICMP Ping:  Yes /  No
- HTTP Server:  HTTP Only /  HTTPS Only
- HTTP Server Port: 80
- HTTPS Server Port: 443
- TLS version: TLS 1.2 only
- Save Changes

**Right Column Settings:**

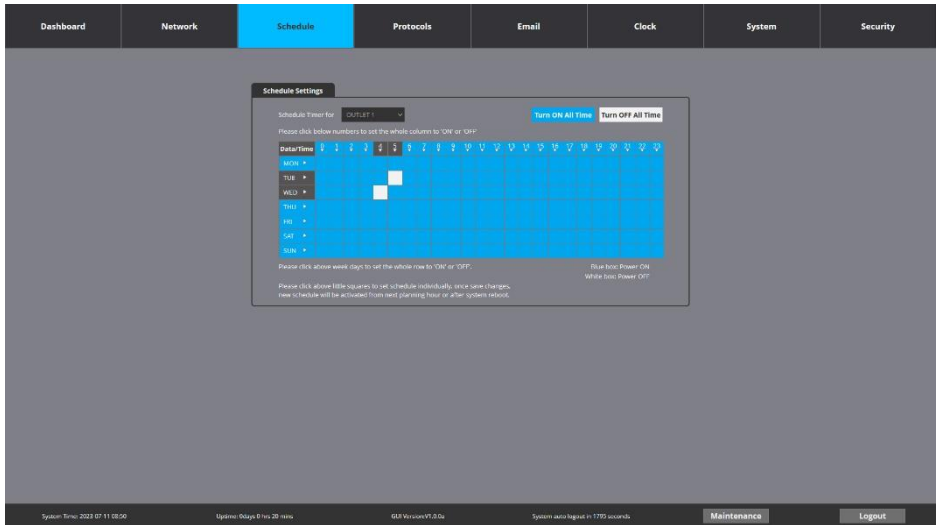
- Hostnames: GP7040200
- Use IPv6 Protocol:  Yes /  No
- Use IPv6 Router Advertisement:  Yes /  No
- Use DHCPv6:  Yes /  No
- Use Manual IPv6 settings:  Yes /  No
- IPv6 Addresses:
  - fe80::baaa:0001:1955:0791:15 / 64
  - fe80::baaa:0001:1955:0791:19 / 64
  - fe80::baaa:0001:1955:0791:15 / 64
- IPv6 DNS addresses:
  - 114.114.114.114
  - 114.114.114.114
- IPv6 Gateway address:
  - 192.168.0.1
  - 192.168.0.1
- Save Changes

**Footer:**

- System Time: 2023-07-11 02:00
- Uptime: 0 days 0 hrs 28 mins
- GM7040200V1.0.0a
- System user logged in 1770 seconds
- Maintenance
- Logout

- Network Setting: Set the IPv4 and IPv6 protocol.

### 5.3 Schedule

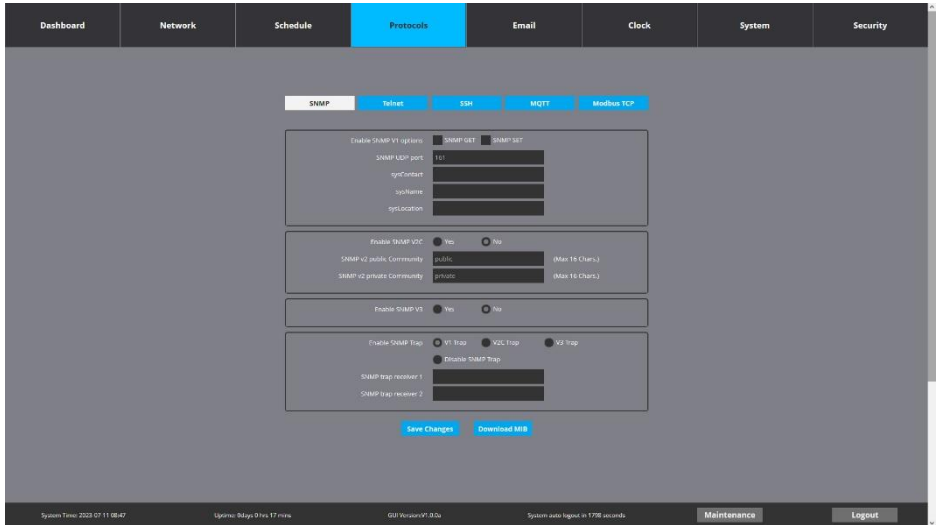


- Schedule setting: select the outlets' power ON/OFF time by choose the squares.

## 5.4 Protocols

- Set the protocols: SNMP, Telnet, SSH, MQTT, Serial Console, Modbus TCP.

### 5.4.1 SNMP



Dashboard | Network | Schedule | **Protocols** | Email | Clock | System | Security

**SNMP** | Telnet | SSH | MQTT | Modbus TCP

Enable SNMP v1 options:  SNMP GET: 1 |  SNMP SET: 1

SNMP v1 port: 161

sysContact:

sysName:

sysLocation:

Enable SNMP v2c:  Yes |  No

SNMP v2 public Community: public (Max: 16 Char.)

SNMP v2 private Community: private (Max: 16 Char.)

Enable SNMP v3:  Yes |  No

Enable SNMP Trap:  V1 Trap |  V2c Trap |  V3 Trap

Enable SNMP Trap:

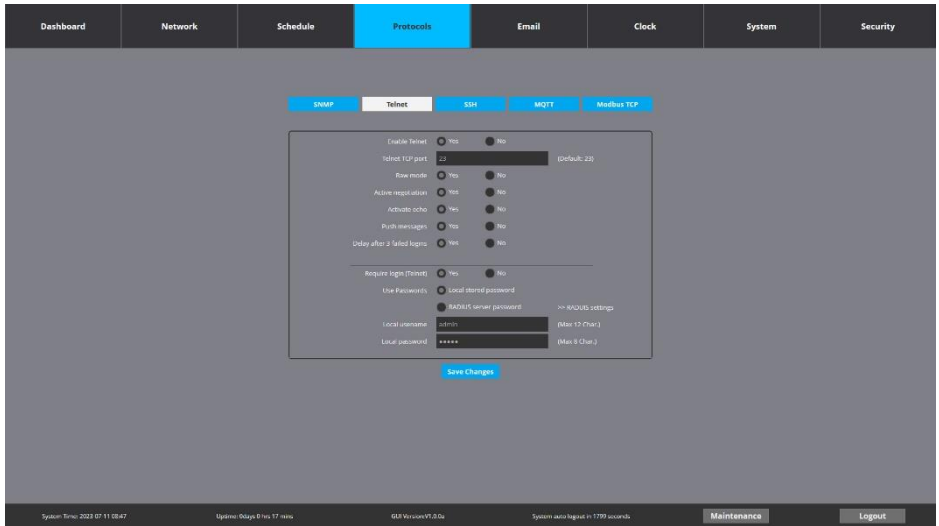
SNMP trap receiver 1:

SNMP trap receiver 2:

[Save Changes](#) | [Download MIB](#)

System Time: 2023-07-11 08:47 | Uptime: 04yrs 0hrs 17 mins | GUI Version: V1.0.0 | System last logged in: 1786 seconds | [Maintenance](#) | [Logout](#)

## 5.4.2 Telnet



Dashboard | Network | Schedule | **Protocols** | Email | Clock | System | Security

SNMP | **Telnet** | SSH | MQTT | Modbus TCP

Enable Telnet  Yes  No  
 Telnet IP port: 23 (Default: 23)  
 Raw mode  Yes  No  
 Active negotiation  Yes  No  
 Activate echo  Yes  No  
 Push messages  Yes  No  
 Delay after a failed login  Yes  No

---

Require login (Thinnet)  Yes  No  
 Use Passwords  Local stored password  
 Local username: admin (Max 15 Char.)  
 Local password: \*\*\*\*\* (Max 8 Char.)

[Save Changes](#)

System Time: 2023-07-11 08:47 | System: 0493a 0 line 11 items | 634 W/00007.0 Du | System user logged in 1700 seconds | [Maintenance](#) | [Logout](#)



## SP7040200: Smart PDU – 4-Port IP switched PDU

### 5.4.3 SSH

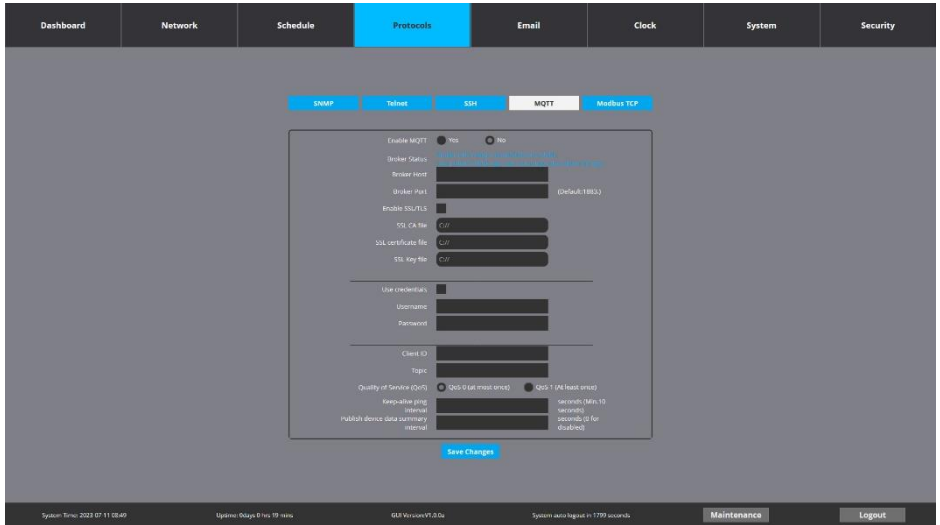
The screenshot shows the SSH configuration page within a web interface. The top navigation bar includes Dashboard, Network, Schedule, Protocols (highlighted), Email, Clock, System, and Security. Under the Protocols tab, there are sub-tabs for SNMP, Telnet, SSH (selected), MQTT, and Modbus TCP. The SSH configuration form contains the following settings:

- Enable SSH:  Yes  No
- SSH 1/2 port:  (Default: 22)
- Activate echo:  Yes  No
- Push messages:  Yes  No
- Require login (SSH):  Yes  No
- Use Parameters:  Local stored password  RADIUS server password
- Local username:  (Max 12 Char.)
- Local password:  (Max 8 Char.)

A "Save Changes" button is located below the form. The footer of the interface displays system information: System Time: 2023-07-11 08:48, System Name: SP7040200, System IP: 192.168.1.100, System User: admin, System Last Login: 1770 seconds, Maintenance, and Logout.

# SP7040200: Smart PDU – 4-Port IP switched PDU

## 5.4.4 MQTT



The screenshot shows the MQTT configuration page within a web management interface. The top navigation bar includes Dashboard, Network, Schedule, Protocols (highlighted), Email, Clock, System, and Security. Below this, a sub-menu contains SNMP, Telnet, SSH, MQTT (highlighted), and Modbus TCP. The main configuration area is a form with the following fields:

- Enable MQTT:** Radio buttons for Yes (selected) and No.
- Broker Status:** A link to "View MQTT Broker Status (MQTT)".
- Broker Host:** A text input field.
- Broker Port:** A text input field with "(Default:1883)" next to it.
- Enable SSL/TLS:** A checkbox.
- SSL CA file:** A text input field with "CSV" below it.
- SSL certificate file:** A text input field with "CSV" below it.
- SSL Key file:** A text input field with "CSV" below it.
- Use credentials:** A checkbox.
- Username:** A text input field.
- Password:** A text input field.
- Client ID:** A text input field.
- Topic:** A text input field.
- Quality of Service (QoS):** Radio buttons for QoS 0 (at most once) (selected) and QoS 1 (at least once).
- Keep-alive ping interval:** A text input field with "seconds (Min: 10 seconds)" next to it.
- publish device data interval:** A text input field with "seconds (0 for disabled)" next to it.

A "Save Changes" button is located at the bottom of the form. The footer of the page displays system information: "System Time: 2023-07-11 05:40", "System Usage: 0 hrs 19 mins", "634 Memory: 97.0 Gb", "System user logged in: 1770 seconds", "Maintenance" (button), and "Logout" (button).

### 5.4.5 Modbus TCP

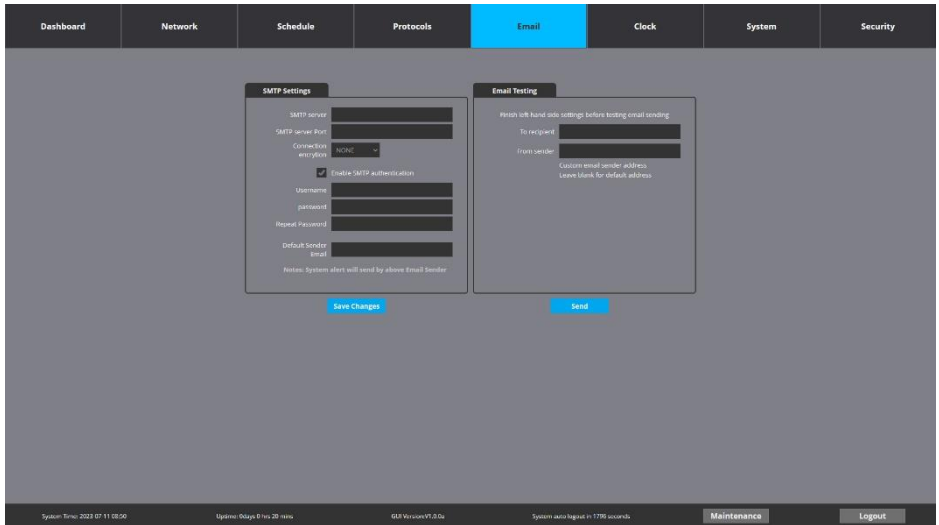
The screenshot shows a web interface for configuring Modbus TCP. At the top, there is a navigation bar with tabs: Dashboard, Network, Schedule, Protocols (highlighted in blue), Email, Clock, System, and Security. Below the navigation bar, there are sub-tabs for protocols: SNMP, Telnet, SSH, MQTT, and Modbus TCP (highlighted in blue). The main content area contains a configuration form with the following settings:

- Enable Modbus TCP:  Yes  No
- Modbus TCP port: [Redacted]
- Enable WRITE (enable output control):  Yes  No

A "Save Changes" button is located below the form. At the bottom of the page, there is a footer with the following information:

- System Time: 2023-07-11 05:40
- System Output: 0 line 18 items
- GM: W000007-020
- System user logged in: 1770 seconds
- Maintenance button
- Logout button

## 5.5 Email



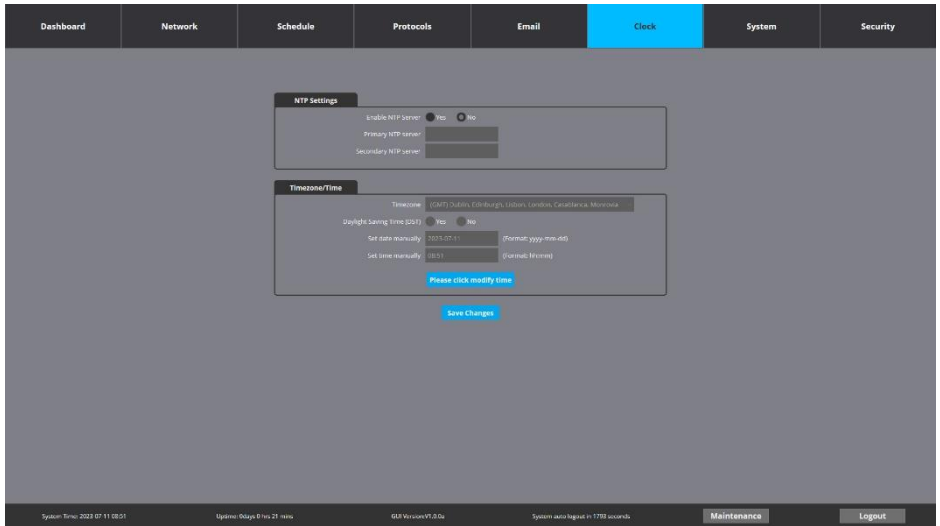
The screenshot displays the 'Email' configuration page in a web interface. The navigation menu at the top includes Dashboard, Network, Schedule, Protocols, **Email**, Clock, System, and Security. The main content area is divided into two panels:

- SMTP Settings:**
  - SMTP server: [Redacted]
  - SMTP server Port: [Redacted]
  - Connection encryption: [Redacted]
  - Enable SMTP authentication
  - Username: [Redacted]
  - Password: [Redacted]
  - Repeat Password: [Redacted]
  - Default Sender Email: [Redacted]
  - Note: System alert will send by above Email Sender
  - Save Changes
- Email Testing:**
  - Person with hand aids settings before testing email sending
  - To recipient: [Redacted]
  - From sender: [Redacted]
  - Custom email sender address. Leave blank for default address.
  - Send

The footer contains system information: System Time: 2023-07-11 02:00, Update: 04/26/19 20:19ms, 633 W000007 PDU, System user logged in 1770 seconds, Maintenance, and Logout.

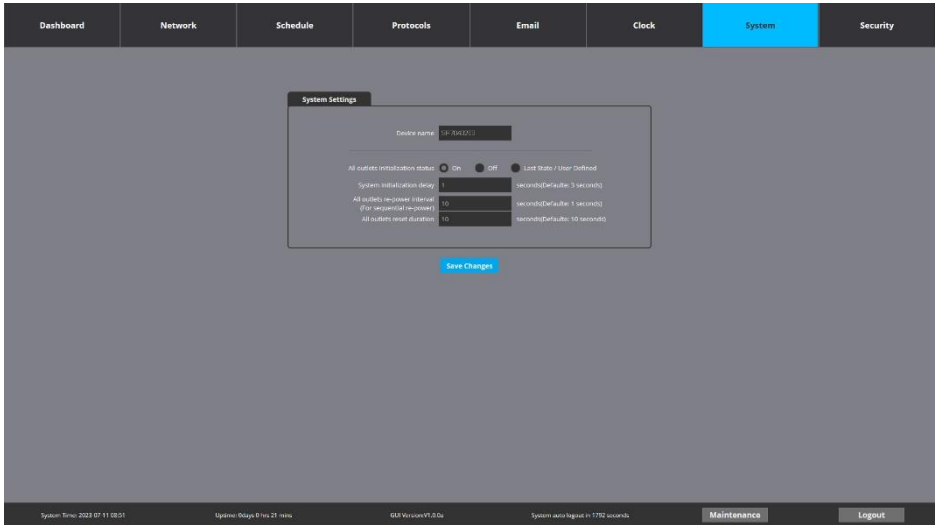
- Setting the alarm email address.
- When the current is too large, an alarm email will be sent to the set address.

## 5.6 Clock



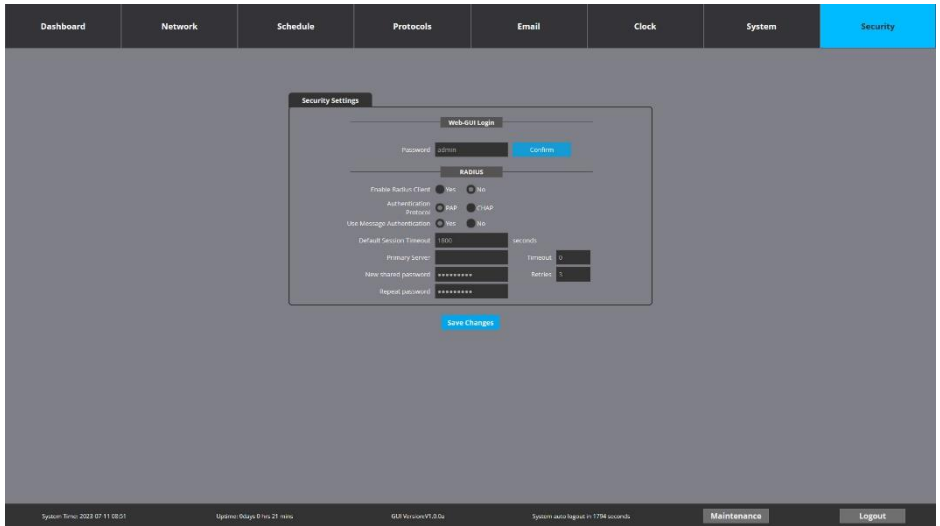
- Setting the time corresponding to the time zone

## 5.7 System



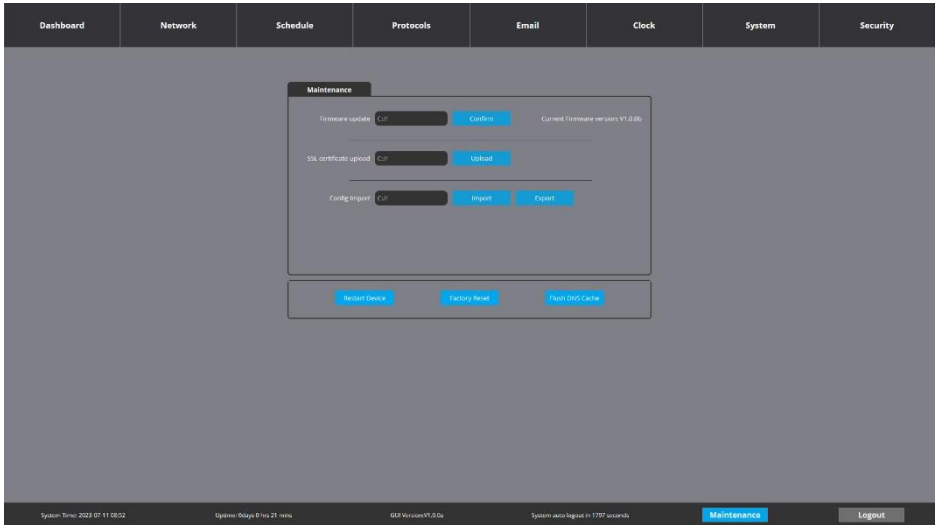
- System setting: Device name, status, delay, re-power interval, reset duration.

## 5.8 Security



- Setting the GUI login password and radius parameters.

## 5.9 Maintenance



- Firmware update, SSL certificate upload, config import and export
- Restart device, factory reset, Flush DNS Cache



## 6. TCP/IP Control

The Smart PDU SP7040200 can be controlled via TCP/IP commands as well as via web interface/ GUI (section 5).

### 6.1 Parameter setting

- IP Address
  - Port 1: 10.10.0.1 (Fixed address)
  - Port 2: 192.168.0.178 (Default static IP, DHCP optional)
- Telnet port: 4001
- Instruction terminator: <CR><LF>
- Error command feedback code: <Command Error      <Out of Range

### 6.2 TCP/IP Commands

Command	Description	Example & Feedback
>GetStatus	Query device status	>GetStatus GUI Or RS232 Query Status: PC-410 <V1.0.0 <OUTLET 1 On <OUTLET 2 On <OUTLET 3 On <OUTLET 4 On <GetSystemStatus last <GetSystemDelay 3s <SetSystemInterval 1s <GetSystemReset 10s <GetOutletStatus 1 on <GetOutletRepower 1 3s <GetOutletReset 1 10s <GetOutletStatus 2 on <GetOutletRepower 2 3s <GetOutletReset 2 10s <GetOutletStatus 3 on <GetOutletRepower 3 3s <GetOutletReset 3 10s

**SP7040200: Smart PDU – 4-Port IP switched PDU**

Command	Description	Example & Feedback
		<p>&lt;GetOutletStatus 4 on            &lt;GetOutletRepower 4 3s            &lt;GetOutletReset 4 10s            &lt;GuiIP:192.168.0.178            &lt;GuiMask:255.255.255.0            &lt;GuiGate:192.168.0.1</p>
>GetElectric	Query device power	<p>&gt;GetElectric            GUI Or RS232 Query Status:            &lt;Total Carrent 9.9A            &lt;Total Power 2400.0W            &lt;Total Energy Consumed 999.9kWh            &lt;Voltage 240V            &lt;Frequency 50Hz            &lt;Power Factor 0.8            &lt;GetOutletVoltage 1 240V            &lt;GetOutletVoltage 2 240V            &lt;GetOutletVoltage 3 240V            &lt;GetOutletVoltage 4 240V            &lt;GetOutletCarrent 1 9.9A            &lt;GetOutletCarrent 2 9.9A            &lt;GetOutletCarrent 3 9.9A            &lt;GetOutletCarrent 4 9.9A            &lt;GetOutletPower 1 600.0W            &lt;GetOutletPower 2 600.0W            &lt;GetOutletPower 3 600.0W            &lt;GetOutletPower 4 600.0W            &lt;GetOutletConsumed 1 999.9kWh            &lt;GetOutletConsumed 2 999.9kWh            &lt;GetOutletConsumed 3 999.9kWh            &lt;GetOutletConsumed 4 999.9kWh            &lt;GetOutletPowerFactor 1 0.8            &lt;GetOutletPowerFactor 2 0.8            &lt;GetOutletPowerFactor 3 0.8            &lt;GetOutletPowerFactor 4</p>

**SP7040200: Smart PDU – 4-Port IP switched PDU**

Command	Description	Example & Feedback
		0.8
>SetSystemStatus	Set the system initial switch state >SetSystemStatus [Param1] param1 = on off last	>SetSystemStatus last
		<SetSystemStatus last
>SetSystemDelay	Set system initial delay >SetSystemDelay [Param1] param1 = All outlets Initialization delay	>SetSystemDelay 3
		<SetSystemDelay 3s
>SetSystemInterval	Set system interval delay >SetSystemInterval [Param1] param1 = All outlets Interval delay	>SetSystemInterval 1
		<SetSystemInterval 1s
>SetSystemReset	Set system reset delay >SetSystemReset [Param1] param1 =All outlets Reset duration	>SetSystemReset 10
		<SetSystemReset 10s
>SetOutletStatus	Set the initial switch state of the outlet >SetOutletStatus [Param1] [Param2] param1 = 1-4 1: OUTLET 1 2: OUTLET 2 3: OUTLET 3 4: OUTLET 4 param2 = on off	>SetOutletStatus 1 on
		<SetOutletStatus 1 on
>SetOutletRepower	Set outlet restart delay >SetOutletRepower [Param1] [Param2] param1 = 1-4 1: OUTLET 1 2: OUTLET 2 3: OUTLET 3 4: OUTLET 4 param2 = Repower delay	>SetOutletRepower 1 3
		<SetOutletRepower 1 3s
>SetOutletReset	Set outlet reset delay >SetOutletReset [Param1] [Param2] param1 = 1-4 1: OUTLET 1 2: OUTLET 2 3: OUTLET 3 4: OUTLET 4 param2 = Reset duration	>SetOutletReset 1 10
		<SetOutletReset 1 10s
>SetAllOutlet	Set all the outlet power ON/OFF	>SetAllOutlet On

**SP7040200: Smart PDU – 4-Port IP switched PDU**

Command	Description	Example & Feedback
	>SetAllOutlet [Param1] param1 = On, Off	>SetAllOutlet Off <SetAllOutlet On <SetAllOutlet Off
>SetOutlet	Set the outlet power ON/OFF >SetOutlet [Param1] [Param2] param1 = 1 - 4 1: OUTLET 1 2: OUTLET 2 3: OUTLET 3 4: OUTLET 4 Param2 = On, Off	>SetOutlet 1 On >SetOutlet 1 Off  <SetOutlet 1 On <SetOutlet 1 Off
>RsOutlet	Reset the outlet power value >RsOutlet [Param1] param1 = 1-4 1: OUTLET 1 2: OUTLET 2 3: OUTLET 3 4: OUTLET 4	>RsOutlet 1  <RsOutlet 1
>RsSystemOutlet	Reset the system power value >RsSystemOutlet	>RsSystemOutlet <RsSystemOutlet
>GetRunTime	Query the unit run time >GetRunTime	>GetRunTime <GetRunTime 90:12:59 (Days, hours, minutes)
>SetSystemTime	Set the unit internal Time >SetSystemTime [Param1] param1 = year, month, day, hour, minutes, seconds	>SetSystemTime 2023-5-1;12:34:18 <SetSystemTime 2023-05-01 12:34:18
>GetSystemTime	Get the unit internal time >GetSystemTime	>GetSystemTime <GetSystemTime 2023-05-01 12:34:18 Mon
>Reset	Factory default	>Reset <Factory Reset
>Restart	Restart	>Restart <Restart
>SetDhcpOn	Set GUI DHCP ON	>SetDhcpOn <SetDHCP On
>SetDhcpOff	Set GUI DHCP OFF	>SetDhcpOff <SetDHCP Off
>GetDhcp	Query GUI DHCP status	>GetDhcp <SetDHCP Off

## SP7040200: Smart PDU – 4-Port IP switched PDU

Command	Description	Example & Feedback
>SetGuiIP:xxx.xxx.xxx.xxx	Set the IP address to access GUI	>SetGuiIP 192.168.0.176
	SetGuiIP xxx.xxx.xxx.xxx.	<SetGuiIP 192.168.0.178.
>GetGuiIP	Get the IP address to access GUI	>GetGuiIP
		<GuiIP 192.168.0.178.

## 7. Specification

Connectors	
Power Connector	(1) IEC C14 Up to AC110~250V 50Hz 10A
Power Ports	(4) IEC C13 Up to AC110~250V 50Hz 10A
Network/ Control	(2) Ethernet connectors (TCP/IP) - RJ45 sockets
General	
Voltage Range	90 ~ 250 V
Current Range	0 ~ 10 A
Frequency Range	45 ~ 65 Hz
Power Factor	0 ~ 1
No-load Power Consumption	3.3W
Environmental conditions	
Operation Temperature	-10 °C ~ +55 °C
Storage Temperature	-25°C ~ +70 °C
Relative Humidity	10% ~ 90%, non-condensing
Physical characteristics	
Dimension (W*H*D)	220mm x 44mm x 120mm (½ 19", 1U)
Net Weight	970g

## 8. Panel Drawing

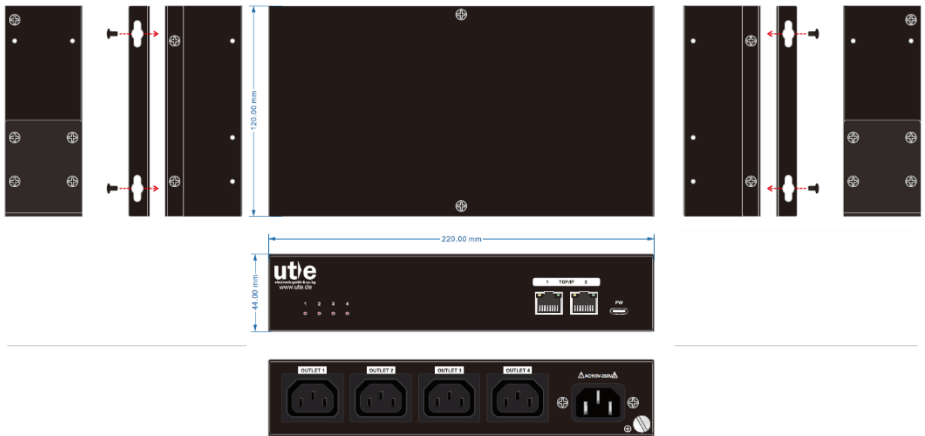



Figure 6-1: Panel Drawing SP7040200

## 9. Troubleshooting & Maintenance

Problems	Potential Causes	Solutions
<b>POWER</b> indicator doesn't work or no respond to any operation	Fail connection of power cord.	Make sure the power cord connection is good.
Cannot control the device by control device (e.g. a PC) through RJ45 ports	Wrong communication parameters.	Type in correct communication parameters.
	Broken RJ45 ports.	Connect authorized dealer for checking.

 **Note:** If your problem still remaining after following the above troubleshooting steps, please contact your local dealer or our technical support (info@ute.de) for further assistance.

## 10. Customer Service

If there appear some problems when running this device, please check and deal with the problems referring to this user manual. Any transport costs are borne by the users during the warranty.

The return of a product to our Customer Service implies the full agreement of the terms and conditions hereinafter. These terms and conditions may be changed without prior notice.

**1) Product Limited Warranty:** We warrants that its products will be free from defects in materials and workmanship for two years, which starts from the first day you buy this product (The purchase invoice shall prevail).

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

### 2) Scope

These terms and conditions of Customer Service apply to the customer service provided for the products or any other items sold by authorized dealer only.

### 3) What the warranty does not cover:

- Warranty expiration.
- Factory applied serial number has been altered or removed from the product.
- Damage, deterioration or malfunction caused by:
  - Normal wear and tear
  - Use of supplies or parts not meeting our specifications
- No certificate or invoice as the proof of warranty.
- The product model showed on the warranty card does not match with the model of the product for repairing or had been altered.
- Damage caused by force majeure.
- Servicing not authorized.
- Any other causes which does not relate to a product defect
- Delivery, installation or labor charges for installation or setup of the product

**4) Documentation:** Customer Service will accept defective product(s) in the scope of warranty coverage at the sole condition that the defeat has been clearly defined, and upon reception of the documents or copy of invoice, indicating the date of purchase, the type of product, the serial number, and the name of dealer.



## SP7040200: Smart PDU – 4-Port IP switched PDU

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**5) Technical Support:** Email to our after-sales department or make a call, please inform us the following information about your cases.

- Product version and name.
- Detailed failure situations.
- The formation of the cases.

**Remarks:** For any questions or problems, please try to get help from your local dealer or our customer support ([info@ute.de](mailto:info@ute.de)).







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