1. Installing the AC Cord Retaining Clip

Secure the AC cord with the supplied ladder strap/retaining clip assembly to prevent accidental disconnection from the USF-212S. Apply before mounting on the rack.

1) Wrap the retaining clip around the AC cord. (with the anchor of the ladder strap toward the unit.)
2) Insert the anchor into the hole next to the AC IN socket.
3) Lightly fasten the clip around the AC cord.
4) Plug in the power cord.
5) Slide the clip on the ladder strap toward the plug.
6) Fasten the clip tightly.
7) Gently pull on the AC cord to ensure it is secured.

2. Opening the Front Panel

The front panel rails can be tilted down.

1) Loosen the two thumb screws of the front panel by turning them counterclockwise.
2) Pull out the front panel using the pull handles. The fan stops while the front panel is open.
3) The front panel rails can be tilted down.

The OPEN alarm will sound every 30 seconds. It continues sounding after 5 minutes. In case the power is on, complete the procedure in a short period of time.

3. Detaching the Front Panel

The front panel can be detached by gently pushing both rails inward.

1) Fully draw out the front panel.
2) The front panel can be detached by gently pushing both rails inward.

Handle the front panel carefully so as not to bend the rails.

IMPORTANT
After the front panel is installed, the ALARM LED on the front panel will light in the following order.
DC1 → DC2 → FAN → TEMP
When the ALARM LEDs not lighting in the above order indicates the front panel has not been installed properly. Re-install the front panel.

4. Front Interior

The slot configuration as shown below is revealed when the front panel is removed.

<table>
<thead>
<tr>
<th>No.</th>
<th>Slot Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>Power Supply 1 slot</td>
<td>Dedicated power unit is installed in this slot as standard. Power is supplied when the switch is turned on.</td>
</tr>
<tr>
<td>(2)</td>
<td>Power Supply 2 slot</td>
<td>Slot for redundant power supply USF-212PS. Redundant operation available when optional USF-212PS is installed. A blank panel will otherwise cover the slot.</td>
</tr>
<tr>
<td>(3)</td>
<td>Control module slot</td>
<td>Fan module slot. Enables you to monitor power supply and fan states via SNMP from back connector LAN A and alarm output via GPI. LAN1 and LAN2 are not applicable.</td>
</tr>
<tr>
<td>(4)</td>
<td>Expansion slot</td>
<td>Not used.</td>
</tr>
<tr>
<td>(5)</td>
<td>USF module slot</td>
<td>Dedicated USF module slots. (Front USF modules) For details on module operation, refer to the respective operation manuals.</td>
</tr>
</tbody>
</table>
5. USF Module Installation

Module installable slots vary depending on the USF module type. (See "Installation Slots for Front and Rear Modules" below.) If multiple free slots exist, do not install modules side-by-side but leave slots open to prevent overheating and facilitate signal connection from the rear panel.

The procedure for installing the USF module in Slot 1 is described below as an example.

Installing a USF Rear Module

1. Open the front panel and shut down the USF-212S power supply.
2. Slot 1 is the top slot in the left module block in the rear panel. Remove the blank panel by detaching the two screws on both ends. Keep the blank panel and screws in a safe place after removal.
3. Insert the rear module into the slot and fasten both screws.

Installing a USF Front Module

Make sure to install the front module after installing the rear module.

1. SLOT 1 is the top slot in the right block of the front panel. (Refer to Sec. 4-5. "Slot Number.")
2. Set the module on the guide rail and carefully insert the module slowly.
3. Push the handle until the front module clicks into the connectors.

Inserting the module by pressing on other than the handle may damage some parts on the PCB.

Installation Slots for Front and Rear Modules

- **Type 1**
  - Front: 1 slot (All slots)
  - Rear: 1 slot (All slots)

- **Type 2**
  - Front: 1 slot (Even slots only)
  - Rear: 2 slots (Upper and lower)

Available modules:
- SLOT 10: 1053DDA, 1054EVA, 1053DDA
- SLOT 8: 1005EVA, 10044DC
- SLOT 6: 108ADA, 1013MUX
- SLOT 4: 1040EVA, 1013DEMUX
- SLOT 2: 1040EVA, 1013DEMUX
- SLOT 1: 1040EVA, 1013DEMUX

NOTE
- USF modules come as front and rear sets. Be sure to install set modules (front and rear) into their proper slots.
- Make sure to install the rear module first, then install the front module.
- Install blank panels over free slots to prevent foreign material from entering and overheating the chassis.

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6. Connecting USF-212S to a PC

When USF-212S is network connected via network to a PC, operation can be monitored on SNMP manager using a web browser, and GPIO alarm setting can be entered. There are two ways to connect USF-212S to a PC: using LAN A or LAN 1/2 port. Select a suitable port in accordance with system configuration.

**LAN A port connection**

**LAN A LED**
- Green Lit: Connected
- Orange Flashing: Transmitting and receiving data

**LAN 1/2 LED**
- Green Lit: Connected
- Orange Flashing: Transmitting and receiving data

**USF-212S Rear**

<table>
<thead>
<tr>
<th>LAN A IP Address</th>
<th>Factory Setting</th>
<th>Slot 1 to 12 IP Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>121.16.0.10</td>
<td>192.168.0.10</td>
<td>192.168.0.11 to 192.168.0.22</td>
</tr>
</tbody>
</table>

**Connecting to LAN 1 or LAN 2 port on the rear panel.** (Connection to LAN 1 port is shown in the drawing below.)

**IMPORTANT**
- Beware of the occurrence of electrical breakdown in USF Modules.
- Wear an anti-static wrist strap or equivalent to equalize the electrical potential of the USF-212S unit and the worker’s body. Do not touch the PCB wiring or parts legs directly with your fingers while working.
- Each USF Module can be installed and uninstalled while the power is on in case of emergency. Shut down the power for non-emergency work.
- When front module is being installed / uninstalled while the power is on, the front panel is in open state. The fan will stop during the procedure, so it is essential to complete the installation within a short period and to close the front panel immediately.
- Be sure to shut down the power to install and uninstall a control module.

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7. Network Default Setting

Open the web browser of the PC and input address.

Connecting to LAN A: [http://121.16.0.10] (Factory Setting)

Connecting to LAN 1 or LAN 2: [http://192.168.0.11 to 192.168.0.22] (Factory Setting)

A status page as shown opens on the web browser when connection is established.

**IP Address Change**

1. Click the Network tab.
2. Input new IP address into the WAN Settings box of LAN A IP address.
3. A confirmation message window opens when you click Apply. Click OK in the confirmation window.
4. Click Utility tab, then click Restart.

**NOTE**
- IP addresses are assigned to respective USF-212S modules installed. Refer to USF-212S operation manual Sec.10 "USF-212S WEB GUI" for details on setting IP addresses.