GARLAND TECHNOLOGY

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User Guide

INT1G10SSASP

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Version 2.0.6

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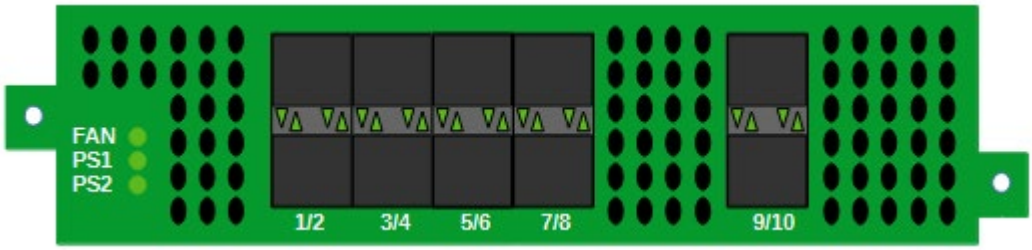
Overview

The INT1G10SSASP is ideal for network monitoring. Traffic may be ingressed into ports 1 through 8 and egressed out monitor ports 9 and 10 in any combination. VLANs tags may be applied to traffic input ports 1 through 8.

Front Panel



Front Panel LED Indications

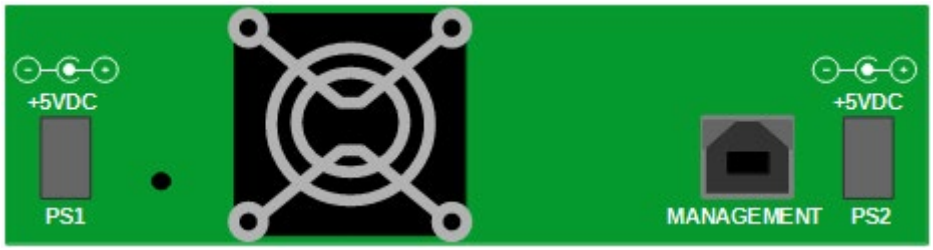
Port 1 Left Up Arrow	Link/Activity LED
Port 2 Left Down Arrow	Link/Activity LED
Port 3 Left Up Arrow	Link/Activity LED
Port 4 Left Down Arrow	Link/Activity LED
Port 5 Left Up Arrow	Link/Activity LED
Port 6 Left Down Arrow	Link/Activity LED
Port 7 Left Up Arrow	Link/Activity LED
Port 8 Left Down Arrow	Link/Activity LED
Port 9 Left Up Arrow	Link/Activity LED
Port 10 Left Down Arrow	Link/Activity LED
Port 1 – 10 Right Up/Down Arrow	N/A

FAN	FAN LED (ON when the fan is running normally) FAN LED (BLINK when the fan is ON, but not functioning properly) FAN LED (OFF when the fan is not required for cooling)
PS1	Power Supply 1 LED (ON when power is applied)
PS2	Power Supply 2 LED (ON when power is applied)

Front Panel Interfaces

Copper or optical SFPs may be used in ports 1 through 10.

Rear Panel



Rear Panel Interfaces

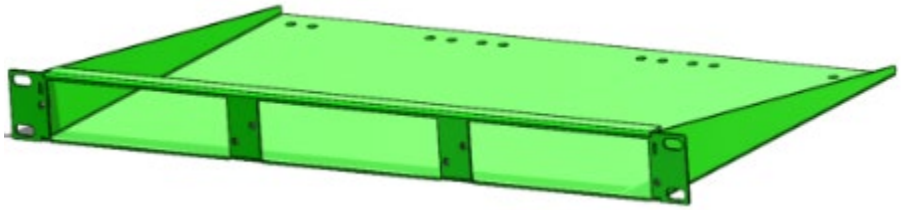
Management	Serial Interface	USB Type B
PS1	Power Supply 1 Input	Locking Barrel Jack
PS2	Power Supply 2 Input	Locking Barrel Jack

Installation

Use the following procedure to install the INT1G10SSASP.

1. Install the INT1G10SSASP into the RMP-1U-V3 assembly using the supplied screws.

   The INT1G10SSASP is portable. Thus, it is designed to be installed into the RMP-1U-V3 assembly shown below.



2. Secure the RMP-1U-V3 to the rack using standard rack screws.

Apply Power

Use the following procedure to apply power. The INT1G10SSASP should only be powered using the power adapters provided by Garland Technology.

1. Insert the power adapter into the PS1 and PS2 locking barrel jacks on the rear panel and connect them to the power sources.
2. The PS1 and PS2 LEDs on the front panel will illuminate.
3. The FAN LED is normally OFF. The FAN LED will illuminate ON if the fan turns on when determined by the system and functioning properly. The LED will BLINK if the fan turns on when determined by the system, but not functioning properly.

The Enter Username prompt will appear @ 2 minutes.

Configuration

Getting Connected

A terminal emulator is required to access and manage the INT1G10SSASP. Use the following settings to connect to the management interface. The management interface is a USB Type B.

```
Bits per second:        115200
Data Bits:              8
Parity:                 None
Stop:                   1
Flow Control:           None
```

Login

After the unit boot up is complete, the banner and enter username option will be displayed.

```
Garland Technology INT1G10SSASP (Code Version: v2.0.6)
```

1. Enter the username, factory default, admin.
2. Enter the password, factory default, gtadmin1.

Configuring the INT1G10SSASP

After login, the main menu will be displayed. Select the desired option by entering 1, 2, 3, 4, 5, 0.

```
Main Menu

Select:
1. View System
2. Change/View Configuration
3. Change Username/Password
4. VLAN Tagging Configuration
5. Restore Factory Defaults
0. Logout
```

View System

1. Enter 1 to view the system.

The system configuration will be displayed.

```
Garland Technology INT1G10SSASP (Code Version: v2.0.6)
Power Supply 1: Down
Power Supply 2: Up
Serial Number: 2496-0020xxx
-------------------------------------------------------------------------
| SPAN | SPAN | SPAN | SPAN | SPAN | SPAN | SPAN | SPAN |  Monitoring  |
|Port 1|Port 2|Port 3|Port 4|Port 5|Port 6|Port 7|Port 8|Port 9|Port 10|
| Down | Down | Down | Down | Down | Down | Down | Down | Down |  Down |
| N/A  | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  | N/A  |  N/A  |
-------------------------------------------------------------------------
Press '0' to return to Main Menu
```

2. Press ‘0’ to return to the Main Menu

Change/View Configuration

1. Enter 2 to change or view the configuration.
2. Enter 1 to select the ports that are aggregated and monitored by port 9.
3. Enter the desired port number, 1, 2, 3, 4, 5, 6, 7, 8 may be selected.

   An asterisk will appear beside the port(s) selected. Enter the number again to deselect any port.
4. Enter 0 to apply and exit.
5. Enter 2 to select the ports that are aggregated and monitored by port 10.
6. Enter the desired port number, 1, 2, 3, 4, 5, 6, 7, 8 may be selected.

   An asterisk will appear beside the port(s) selected. Enter the number again to deselect any port.
7. Enter 0 to apply and exit to the main menu.

Change Username/Password

The default username/password, admin/gtadmin1 may be changed using the following procedure. If changed, there is a reset button on the rear panel, that when depressed and held for 5 seconds, will reset the username/password back to the factory defaults. The system will display a reset successful message.

```
============ Username / Password Reset Successful ============
```

1. Enter 3 to change the username/password.
2. Enter 1 to change the username.
3. Enter the new username.

   A username may be from 5 to 48 characters, a-z, A-Z, 0-9. An username may not contain spaces or special characters.
4. Re-Enter the username.

   A message will be displayed “Username successfully changed to xxxxx”.
5. Press any key to continue.
6. Enter 2 to change the password.
7. Enter the new password.

   A password may be from 5 to 48 characters, a-z, A-Z, 0-9 and special characters ~ ! @ # % ^ _ [ ] { } ? , . = + - *. A *password may not contain spaces.*
8. Retype the new password.

   A message will be displayed “Password successfully changed”.

9. Press any key to continue.

10. Press 0 to return to the main menu.

VLAN Tagging Configuration

VLAN tagging may be configured on ports 1 through 8. When enabled, the system applies default VLAN tags for ports, 1 through 8, VLAN tags 10, 11, 12, 13, 14, 15, 16, 17. The VLAN tags may be modified in the range of 2 to 4087.

1. Enter 4 enable VLAN tagging and configure the VLANs.

2. Enter 1 to enable VLAN tagging.

The system will display VLAN tagging is enabled and the default VLAN tags applied to ports 1 through 8.

```
VLAN Tagging is: Enabled
---------------------------------------------------------
Port 1|Port 2|Port 3|Port 4|Port 5|Port 6|Port 7|Port 8|
 VID  | VID  | VID  | VID  | VID  | VID  | VID  | VID  |
  10  |  11  |  12  |  13  |  14  |  15  |  16  |  17  |
---------------------------------------------------------
```

3. Enter 1 to set VLAN tag to insert on ports 1 through 8.

4. Enter 1 to set VLAN tag to insert.

5. Enter the desired VLAN tag, 2 – 4087.

6. Press Enter.

7. Enter 0 to exit without change.

8. Enter 0 to exit.

The system will display VLAN tagging is enabled and the VLAN tags applied to ports 1 through 8.

9. Enter 2 to disable VLAN tagging.

10. Enter 0 to return to the main menu.

Restore Factory Defaults

The unit may be restored to the factory defaults. This action removes any port 1 through 8 assigned to monitor ports 9 or 10. VLAN tagging is also disabled. Restoring factory defaults does not reset the username/password back to the factory default.

1. Enter 5 restore factory defaults.

2. Enter 1 restore factory default config.

A message will be displayed "Are you sure you want to restore factory default config?".

3. Enter 1 restore factory default config.

The factory defaults are restored, and the main menu will be displayed.

Logout

1. Select 0 to log out.

Supported SFPs

The following Garland Technology SFPs have been verified for use in the INT1G10SSASP.

Copper

SFPTX	10/100/1000	RJ45		
SFPTX_T	10/100/1000	RJ45		TAA Compliant
SFP+T	100/1G/10G	RJ45		
SFP+T_T	100/1G/10G	RJ45		TAA Compliant

Optical

SFPLX	1000Base-LX	Single Mode	1310nm	
SFPSX	1000Base-SX	Multi Mode	850nm	
SFPLX_T	1000Base-LX	Single Mode	1310nm	TAA Compliant
SFPSX_T	1000Base-SX	Multi Mode	850nm	TAA Compliant
SFP+LR	10GBase	Single Mode	1310nm	
SFP+SR	1G/10G	Multi Mode	850nm	
SFP+LR_T	1G/10G	Single Mode	1310nm	TAA Compliant
SFP+SR_T	1G/10G	Multi Mode	850nm	TAA Compliant
SFP+SR10G	10G	Multi Mode	850nm	
SFP+LR10G	10G	Single Mode	1310nm	
SFPFX-P	100Base	Multi Mode	1310nm	
SFPLX-P	100Base	Single Mode	1310nm	

Notes:

* Ports 1 through 8 support 10M, 100M or 1000M/1G.

* Ports 9 and 10 support 100M/1G/10G. These ports do not auto detect. The connected device must be set to 100M, 1G or 10G for proper operation.

* If SFP+T or SFP+T_T 10G copper SFPs are deployed in ports 9 and/or 10, the SFP case may exceed a temperature that is hazardous to touch. Caution should be utilized when inserting, removing, connecting cables or removing cables to the SFPs.