16/32 Ports Console Server

SCG-5616/5632 User Manual

Version 1.3

Sollae Systems https://www.eztcp.com

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1 Overview

1.1 Introduction

The SCG-5616 is an industrial console server equipped with 16 RS232 ports, while the SCG-5632 features 32 RS232 ports. Users can remotely access serial communication devices connected to the RS232 ports of these products.

1.2 Features

- Multiple RS232 ports: 16(SCG-5616) / 32(SCG-5632)
- Supports console and GUI configuration
- Supports COM port scanning function
- Supports ACL (Access Control List) function
- Supports batch configuration

1.3 Block Diagram



Figure 1-1 Block diagram



1.4 Specifications

Serial Physical Interface					
Serial Interface	RS232 - RXD, TXD, RTS, CTS, DTR, DSR, GND				
Connector	8 pin RJ45				
	Serial Port Properties				
Baudrate	2,400 ~ 115,200 bps				
Data Bits	8 bits, 7 bits with parity				
Parity	None, Even, Odd, Mark, Space				
Stop Bit	1, 2				
Flow Control	None, RTS/CTS				
Network Physical Interface					
Wired LAN 10Base-T/100Base-TX Ethernet (RJ45)					
	Ethernet Speed Auto Sense				
1:1 or Cross-over Cable Auto Sense					
	Software Functions				
Protocols	TCP, IP, TLS, SSH, ICMP, ARP, TELNET, DHCP, mDNS				
Security	Password for Configuration				
Additional	ACL, COM port scan				
	Indicators				
LED	PWR, STS, TXD, RXD				
	Management				
spFinder	Configuration Tool				
Dimension					
Size	43.7cm x 4.4cm x 22.8cm				
Weight	SCG-5616 - about 2.5Kg				
SCG-5632 - about 2.7Kg					
Operating Environment					
Input Voltage	AC 90V ~ 264V				
Power Consumption	SCG-5616 - typically, 17W				
SCG-5632 - typically, 22W					
Operating Temperature	-20°C ~ 60°C				
Storage Temperature	-20°C ~ 60°C				
	Certificate				
КС	Registration (KS C 9832, KS C 9835)				
FCC	FCC Part 15 Subpart B, Class A				

table 1-1 Specifications



SCG-5616 16 Parts Canada Server Image: SCG-5616 Image: SCG-5616 1.5.1 1.5.3 1.5.5 1.5.2 1.5.4 SCG-5632 SCG-5632

1.5 Interfaces

Figure 1-2 Interfaces

1.5.1 Power

It uses a standard AC power cord and operates with a voltage range of AC 90V to 264V.

1.5.2 Console Port: RS232 / 115,200bps

The console port is for initial setup and status checks of the product and is interfaced with a 1 x 8 RJ45 connector.



Figure 1-3 Console Port



• Pin Assignment

Num	Name	Description	I/0	Wiring
3	TXD	Transmit Data	OUT	Required
4	GND	Ground	-	Required
5	GND	Ground	-	Required
6	RXD	Receive Data	IN	Required
		Table 1 2 min appierment		

Table 1–2 pin assignment

1.5.3 Function Button

This button is used to implement a factory reset.

1.5.4 USB Port

The console port is for initial setup and status checks of the product.

1.5.5 LED

LED operations by device status are as follows:

When the supplied power is stable: PWR

PWR	
When the supplied power is NOT stable: PWR	
PWR	
While the script is running: STS	
STS	
While the script is not running: STS	
STS	
When transmitting data over the network: TXD	
TXD	
When receiving data from the network: RXD	
RXD	



1.5.6 COM Port : RS232 / 9,600bps

The COM port used to connect to the console port of the user's equipment, interfaced with a 1 X 8 RJ45 connector.



Figure 1-4 COM port

• Pin assignment (* : Mandatory)

Num	Name	Description	I/0	Ext. Wiring
1	RTS	Request To Send	OUT	CTS
2	DTR	Data Terminal Ready	OUT	DSR
3	*TXD	Transmit Data	OUT	RXD
4 & 5	*GND	Ground	-	GND
6	*RXD	Receive Data	IN	TXD
7	DSR	Data Set Ready	IN	DTR
8	CTS	Clear To Send	IN	RTS

Table 1-3 pin assignment

- The DTR(#2) pin is activated when this device is connected on TCP.
- When connecting the COM port to user equipment, refer to the external wiring to ensure proper connection. Incorrect wiring may cause product malfunction. In particular, be careful not to use retail LAN cables as they are.



• Operation of port's LED

When no TCP connection is established: Green & Orange



1.5.7 Ethernet

SIG-5608 provides 10/100Mbps Ethernet. The pin assignment is as follows:



#1	:	Тх	+	(Out)
#2	:	Тх	_	(Out)
#3	:	Rx	+	(In)
#6	:	Rx	_	(In)

Figure 1-5 Ethernet

• LED of the Ethernet

When a network is NOT connected: Green & Orange

	Green
١	When a network is connected: Green
	Green
١	While the script is running: Orange
	Orange
۱	While the script is not running: Orange
	Orange

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2 Connection

2.1 Connection Methods

To use this product, you need to connect it to a PC. It offers three connection methods.

Connection Method	Program	Requirements
Console Port	Any Terminal Program	-
USB Port	GUI(spFinder)	MS Windows
Network	GUI(spFinder)	MS Windows, Initial Setting

Table 2-1 Connection methods

• spFinder is a Windows program for configuring and managing Sollae System products.

2.2 Console Port Connection

By connecting the product's console port to the PC's RS232 port, you can configure and check the status through shell commands in a terminal program. The communication speed of the console port is 115,200bps.

2.3 USB Port Connection

• Installing the Setting Tool

Download spFinder from our website and install it on your PC.

• Connecting the product

Connect the product's USB port (USB Type-B) to the PC using a USB cable.

Opening the port

Run spFinder, select the [USB] tab, choose the connected COM port, and click [Open].



2.4 Network Connection

- To use the network connection method, spFinder settings (local search, network connection) must be enabled. These settings are disabled by default from the factory, so first, use the USB port connection to enable these settings.
 - Installing the Setting Tool
 Download spFinder from our website and install it on your PC.
 - Connecting the product
 Connect the product's USB port (USB Type-B) to the PC using a USB cable.
 - Searching the product

Run spFinder, select the [Local] tab, and click [Search].

• Connection and login

Click on the product that appears in the search results to connect to it. To connect to the product using the network connection method, you need to log in with the following credentials:

Division	SCG-5616	SCG-5632		
ID	scg-5616	scg-5632		
password	scg-5616	scg-5632		

Table 2-2 The ID and the default password

If the password is set to the default value, spFinder will automatically handle the login process.



3 Setting by Console Commands

You can configure the device using console commands via the console port connection method.

3.1 Console Commands

Command	Sub Command(Option)	Sub Command(Option)	Description
env	net	-	IP address settings
	sys	-	System settings
	tty	<pre>[start_port[-end port]]</pre>	COM Port Settings
tty	stat	-	Viewing COM Port Status
	close	tty_id	Terminating a specific
			COM port session
	scan	-	COM port scan

Table 3-1 Console commands for users

3.2 IP Address Settings: env net

	3.	2.	1	Items	of	env	net
--	----	----	---	-------	----	-----	-----

Item	Default Value	Description
dhcp	Yes	DHCP enable(Yes) / disable(No)
ip4 address	0.0.0.0	IPv4 address
subnet mask	0.0.0	Subnet mask
gateway	0.0.0.0	Gateway IP address
dns server	0.0.0	DNS server IP address
auto dns	Y	Yes: Obtaining DNS server IP address automatically
		No: Assigning DNS server IP address manually

Table 3-2 Items of env net

dhcp

This is the item to enable or disable the feature of obtaining an IP address automatically using DHCP. Disabling this item allows for the configuration of a static IP address.

ip4 address

This is the item for configuring a static IPv4 address.

subnet mask

This is the item for configuring the subnet mask.

• gateway

This is the item for configuring the gateway IP address.

• dns server

This is the item for configuring the DNS server IP address.

auto dns

This is the item to enable or disable the feature of automatically obtaining DNS server IP addresses. This item can only be used when the DHCP item is enabled.

3.3 System Settings: env sys

3.3.1 Items of env sys

Item	Default Value	Description
ssh	No	SSH connection enable(Yes) / disable(No)
ssh tcp port	22	Port number of SSH connection
ssh user name	-	Username for SSH login
ssh password	-	Password for SSH login
ip4 lock	No	ACL function enabling(Yes) / disabling(No)
allow ip4	0.0.0.0	IP Address of the host allowed to access
host desc	-	Host description

Table 3-3 Items of env sys

ssh

This is the item to enable or disable SSH. When SSH is enabled, you can use a remote console via an SSH client. The default value is No (disabled).

ssh tcp port

This is the item for configuring the SSH port number.

ssh user name

This is the item for configuring the SSH login username. Up to 12 bytes can be set.

ssh password

This is the item for configuring the SSH login password. Up to 32 bytes can be set.

ip4 lock

This is the item to enable or disable the ACL (Access Control List) feature. Enabling this item will block network access from all hosts except those specified in the allow ip4 item.

• allow ip4

This is the item for configuring the IP addresses of hosts allowed to access. Up to 4 IP addresses can be specified.

host desc

This is the item for storing a description of the device for identification purposes. Up to 32 bytes can be set.



3.4 COM Port Settings: env tty

3.4.1 Usage of env tty

Example	Description
env tty	Viewing the current COM port settings
env tty 1	Setting the COM port #1
env tty 1-10	Setting the COM ports from #1 to #10
env tty 1-32	Setting all COM ports
env tty 1-32	Setting all LUM ports

Table 3-4 Usage of the env tty

3.4.2 Items of env tty

Item	Default Value	Description
uart baud rate	9600	Serial baud rate
uart parity	None	Parity(N: None, E: Even, O: Odd)
uart data bits	8	Data bits(8: 8bits, 7: 7bits)
uart stop bits	1	Stop bits(1: 1 bit, 2: 2bits)
uart flowctrl	No	<pre>RTS/CTS flow control enable(Yes) / disable(No)</pre>
tcp port	14701~14732	TCP port number
timeout minutes	0	TCP connection timeout($0 \sim 1440$)
telnet	Yes	<pre>TELNET protocol enable(Yes) / disable(No)</pre>
login msg	No	Login message enable(Yes) / disable(No)
port desc	tty1~32	Port description

Table 3-5 Items of env tty

• uart baud rate

This is the item for configuring the serial baud rate. The setting range is from 2400bps to 115200bps.

• uart parity

This is the item for configuring serial parity. You can set it to E(even), O(odd) or N(no parity).

uart data bits

This is the item for configuring the number of serial data bits. You can set it to 8 or 7, but 7 bits can only be set when using a parity bit.

uart stop bits

This is the item for configuring the number of serial stop bits. You can choose between 1 bit or 2 bits.

uart flowctrl

This is the item for enabling (Yes) or disabling (No) serial RTS/CTS flow control.

• tcp port

This is the item for configuring the port number for TCP connections.

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• timeout minutes

This is the item for configuring the connection timeout. The setting is in minutes, ranging from 0 to 1440. If a non-zero value is set, the TCP connection will automatically terminate after the specified time if there is no data communication during the session. Setting it to 0 disables the connection timeout feature.

• telnet

This is the item to enable or disable the Telnet protocol for COM port sessions. When the Telnet protocol is enabled, terminal programs that support Telnet can be used smoothly to connect to COM port sessions.

login msg

This is the item for enabling (Yes) or disabling (No) the login message output feature. When enabled, the value stored in port desc will be immediately sent to the client upon establishing a TCP connection for that session.

• port desc

This is the item for storing a description of the port for identification purposes. Up to 30 bytes can be set.

3.5 Viewing COM Port Status: tty stat

State	Description
tty	COM port ID
baud	Serial baud rate
port	TCP port number
peer address	Connected Host IP Address (During TCP Connection)
uart rcvd	Serial Received Data Count (Unit: Bytes)
tcp rcvd	TCP Received Data Count (Unit: Bytes)
	Table 3-6 States of tty stat

3.5.1 States of tty stat

3.6 Terminating a Specific COM Port Session: tty close

3.6.1 Usage of tty close

Example	Description
tty close 1	Terminating the session of a COM port #1
tty close 23	Terminating the session of a COM port #23
	Table 3-7 Usage of thy close

Table 3-7 Usage of tty close



3.7 COM Port Scan: tty scan

COM port scan is a function to check if a device is connected to a COM port. It sequentially connects to all COM port sessions and sends a specific character (CR, 0x0d), then checks for a response message. If there is a response message, it is considered that a device connection has been detected. If the device does not respond, it is not possible to confirm device connectivity using this function.

3.7.1 States of tty scan

Item	Description
online	Device Connection Detected
offline	Device Connection Not Detected
busy	Unknown

Table 3-8 States of tty stat



4 Setting by GUI

You can configure the device using the GUI setup program, spFinder, via USB port connection or network (LAN port) connection.

4.1 Network

4.1.1 Obtain an IP address automatically

This product can automatically obtain an IP address by DHCP. A DHCP server is required to use this.

ocal Remote	e USB		Network General Security	
	Search		IPv4	
MAC	Product	IP 🔨	Obtain an IP address automatically Use static IP address	
00:30:f9:02:	SCG-5632	10.6.0.	Local IP address	
00:30:f9:02:	SMG-5400	112.171.1	Subnet mack	
00:30:f9:02:	SMG-5410	112.171.1	Subirectinask	
00:30:f9:02:	SMG-5420	112.171.1	Gateway IP address	
00:30:f9:02:	SIG-5430	112.171.1	Obtain DNS server address automatically	
00:30:f9:02:	SIG-5440	112.171.1	DNS IP address	
00:30:f9:02:	SIG-5450	112.171.1	Thuế	
00:30:f9:02:	SIG-5600	112.171.1	IPvo IDv6 Disable	
00:30:f9:02:	SIG-5560	112.171.1		
00:30:f9:02:	SMG-5620	112.171.1	Obtain an IP address automatically EUI MAC Address	
00:30:f9:02:	SIG-5601	10.6.0.	Use static IP address	
00:30:f9:02:	SIG-5561	112.171.	Local IP address	
00:30:f9:02:	SIG-5561	112.171.	Gateway IP address	
00:30:f9:02:	SIG-5561	112.171.	Obtain DNS server address automatically	
00:30:f9:0e:	CSC-HR3	112.171.1	DNS IP address	
00:30:f9:17:	SIG-5601	112.171.1 🗸		
c		>		

Figure 4-1 Obtain an IP address automatically

- Select the [Obtain an IP address automatically].
- Check the [Obtain DNS server address automatically] and click the [Save] button.



4.1.2 Use a Static IP address

ocal Remo	te USB		Network General Security
	Search		IPv4
MAC	Product	IP ^	Use static IP address
0:30:f9:02:.	. SCG-5632	10.6.0.	Local IP address 0 . 0 . 0 . 0
0:30:f9:02:.	SMG-5400	112.171.1	Sheetmark 0 0 0
0:30:f9:02:	SMG-5410	112.171.1	Subhet mask
0:30:f9:02:	SMG-5420	112.171.1	Gateway IP address 0 , 0 , 0 , 0
0:30:f9:02:.	SIG-5430	112.171.1	Obtain DNS server address automatically
0:30:f9:02:	SIG-5440	112.171.1	DNS IP address 0 . 0 . 0 . 0
0:30:f9:02:.	SIG-5450	112.171.1	
0:30:f9:02:.	SIG-5600	112.171.1	IPvo IDv6 Disable
0:30:f9:02:	SIG-5560	112.171.1	IPV6 Disable •
0:30:f9:02:	SMG-5620	112.171.1	Obtain an IP address automatically EUI MAC Address ~
0:30:f9:02:.	SIG-5601	10.6.0.	Use static IP address
0:30:f9:02:.	SIG-5561	112.171.	Local IP address /
0:30:f9:02:	SIG-5561	112.171.	Gateway IP address
0:30:f9:02:	SIG-5561	112.171.	Obtain DNS server address automatically
0:30:f9:0e:	CSC-HR3	112.171.1	DNS IP address
0:30:f9:17:.	SIG-5601	112.171.1 ¥	
		>	

You can set a static IP address to this product.

Figure 4-2 Use a static IP address

- Select the [Use static IP address].
- Set the [Local IP address], [Subnet mask], [Gateway IP address] and [DNS IP address].
- Click the [Save] button.



4.2 General

	tion									
ocal Remote	e USB		Netwo	ork General Securit	y					
	Search		Comm	ent]			
MAC	Product	IP ^	E SC	G-5632						
00:30:f9:02	SCG-5632	1060	± SS	H		No				1
00:30:f9:02:	SMG-5400	112,171,1	+ Acc	cess control list		No				
00:30:f9:02:	SMG-5410	112,171,1								
00:30:f9:02:	SMG-5420	112,171,1								
00:30:f9:02:	SIG-5430	112,171,1								
00:30:f9:02:	SIG-5440	112,171,1								
00:30:f9:02:	SIG-5450	112.171.1								_
00:30:f9:02:	SIG-5600	112.171.1	ΠΥ	Settings	Port	Timeout	Telnet	Messa	Comment	
00:30:f9:02:	SIG-5560	112.171.1	1	9600-N-8-1-NF	14701	0	Yes	No	tty1	
00:30:f9:02:	SMG-5620	112.171.1	2	9600-N-8-1-NF	14702	0	Yes	No	tty2	ł
00:30:f9:02:	SIG-5601	10.6.0.	3	9600-N-8-1-NF	14703	0	Yes	No	tty3	
00:30:f9:02:	SIG-5561	112.171.	4	9600-N-8-1-NF	14704	0	Yes	No	tty4	
	SIG-5561	112.171.	5	9600-N-8-1-NF	14705	0	Yes	No	tty5	
00:30:f9:02:	SIG-5561	112.171.	6	9600-N-8-1-NF	14706	0	Yes	No	tty6	
00:30:f9:02: 00:30:f9:02:		112 171 1	7	9600-N-8-1-NF	14707	0	Yes	No	tty7	
00:30:f9:02: 00:30:f9:02: 00:30:f9:0e:	CSC-HR3			0000 NI 0 1 NIT	14708	0	Yes	No	ttv8	
00:30:f9:02: 00:30:f9:02: 00:30:f9:0e: 00:30:f9:17:	CSC-HR3 SIG-5601	112.171.1 ¥	8	9600-IN-8-1-INF	14/00	-				

Figure 4-3 General

4.2.1 Comment

This is the item for storing a description of the device for identification purposes. Up to 32 bytes can be set.

4.2.2 SSH

• SSH

This is the item to enable or disable SSH. When SSH is enabled, you can use a remote console via an SSH client. The default value is No (disabled).

• TCP Port

This is the item for configuring the SSH port number. The default value is 22.

• User name / Password

This is the item for configuring the SSH login username and password. You can set the username up to 12 bytes and the password up to 32 bytes.



4.2.3 Access Control List

• Access Control List

This is the item to enable or disable the ACL (Access Control List) feature. Enabling this item will block network access from all hosts except those specified in the Allow IP4 item.

• Allow IP4

This is the item for configuring the IP addresses of hosts allowed to access. Up to 4 IP addresses can be specified.

4.2.4 TTY (COM Port) Settings

TTY is the item for configuring COM ports. Double-clicking each port opens the configuration window for that specific port.

9600 8 NONE Yes all ports	< TTY 1 > Parity Parity Stop Bit Timeout Login message	NONE 1 0	✓✓Min		-		×
9600 8 NONE Yes	Parity Parity Stop Bit Timeout Login message	NONE 1 0	✓Min				
9600 8 NONE Yes all ports	 Parity Stop Bit Timeout Login message 	1 0	✓✓Min	-			
8 NONE Yes all ports	 Stop Bit Timeout Login message 	1	∽ Min				
Yes all ports	✓ Timeout ✓ Login message	0	Min				
Yes all ports	Login message	U	Min				
Yes all ports	 Login message 						
all ports	message	No	~				1
all ports				********			
14701							
14/01							
tty1							_
	A	pply C	ancel	Telnet	Messa	Comment	1
1.1	SOOO-IN-OF LEINE	14/01	v	Yes	No	tty1	í.
2	9600-N-8-1-NF	14702	0	Yes	No	tty2	
3	9600-N-8-1-NF	14703	0	Yes	No	tty3	
4	9600-N-8-1-NF	14704	0	Yes	No	tty4	
5	9600-N-8-1-NF	14705	0	Yes	No	tty5	
6	9600-N-8-1-NF	14706	0	Yes	No	tty6	
7	9600-N-8-1-NF	14707	0	Yes	No	tty7	
8	9600-N-8-1-NF	14708	0	Yes	No	tty8	
0	9600-N-8-1-NF	1/1709	0	Vec	No	thyQ	•
	7 8 0	7 9600-N-8-1-NF 8 9600-N-8-1-NF 9 9600-N-8-1-NF	7 9600-N-8-1-NF 14707 8 9600-N-8-1-NF 14708 9 9600-N-8-1-NF 14708 9 9600-N-8-1-NF 14709	7 9600-N-8-1-NF 14707 0 8 9600-N-8-1-NF 14708 0 9 9600-N-8-1-NF 14709 0 Save Status 14709 0	7 9600-N-8-1-NF 14707 0 Yes 8 9600-N-8-1-NF 14708 0 Yes 9 9600-N-8-1-NF 14709 0 Yes 9 9600-N-8-1-NF 14709 0 Yes Save Status Status Status Status	7 9600-N-8-1-NF 14707 0 Yes No 8 9600-N-8-1-NF 14708 0 Yes No 9 9600-N-8-1-NF 14709 0 Yes No Save Status Status <td>7 9600-N-8-1-NF 14707 0 Yes No tty7 8 9600-N-8-1-NF 14708 0 Yes No tty8 9 9600-N-8-1-NF 14709 0 Yes No tty8 9 9600-N-8-1-NF 14709 0 Yes No tty9 Save Status 14709 0 Yes No tty9</td>	7 9600-N-8-1-NF 14707 0 Yes No tty7 8 9600-N-8-1-NF 14708 0 Yes No tty8 9 9600-N-8-1-NF 14709 0 Yes No tty8 9 9600-N-8-1-NF 14709 0 Yes No tty9 Save Status 14709 0 Yes No tty9

Figure 4-4 TTY (COM Port) settings

• Serial Communication

Item	Option	Default Value
Baud rate	2400 ~ 115200	9600
Parity	NONE, EVEN, ODD, MARK, SPACE	NONE
Data Bit	8, 7(패리티비트 사용시)	8
Stop Bit	1, 2	1
Flow Control	NONE, RTS/CTS	NONE

Table 4-1 Serial communication

• Timeout

This is the item for configuring the connection timeout. The setting is in minutes, ranging from 0 to 1440. If a non-zero value is set, the TCP connection will automatically terminate after the specified time if there is no data communication during the session. Setting it to 0 disables the connection timeout feature. The default value is 0.

• Telnet

This is the item to enable or disable the Telnet protocol for COM port sessions. When the Telnet protocol is enabled, terminal programs that support Telnet can be used smoothly to connect to COM port sessions. The default value is Yes (enabled).

• Login message

This is the item for enabling (Yes) or disabling (No) the login message output feature. When enabled, the value stored in port desc will be immediately sent to the client upon establishing a TCP connection for that session. The default value is No.

• Applies to all ports

This is the button to apply the settings configured for this COM port to all ports. The [TCP Port] and [Port description] items will not be applied.

• TCP Port

This is the item for configuring the port number for TCP connections. The default value ranges from 14701 to 14732, depending on the COM port number.

Port description

This is the item for storing a description of the port for identification purposes. Up to 30 bytes can be set.



4.3 Security

ocal Remot	e USB		Network Genera	Security			
	Search		Password				
MAC	Product	IP A	ID	scg-5632	\sim		
00.30.40.02.	SCG-5632	10.6.0	Password	•••••			
00:30:f9:02	SMG-5400	112,171,1	Retype password				
0:30:f9:02:	SMG-5410	112.171.1	The default pace	word is set. Change your passw	ord		
0:30:f9:02:	SMG-5420	112.171.1	Castificante	voru is set. Change your passw	oru.		
0:30:f9:02:	SIG-5430	112.171.1	Certificate	Heat			
0:30:f9:02:	SIG-5440	112.171.1	lype	nost	·		
0:30:f9:02:	SIG-5450	112.171.1		Write certificate			
0:30:f9:02:	SIG-5600	112.171.1	Write signed ce	rtificate from certification author	rities		
00:30:f9:02:	SIG-5560	112.171.1	Tine signed co				
00:30:f9:02:	SMG-5620	112.171.1	Read t	he certificate from a product			
0:30:f9:02:	SIG-5601	10.6.0.	Delete	la an l'Éarta Éan a an dat			
00:30:f9:02:	SIG-5561	112.171.	Delete	the certificate from a product			
00:30:f9:02:	SIG-5561	112.171.	spFinder				
00:30:f9:02:	SIG-5561	112.171.	Local search	Network connection	Remote acces	s	
00:30:f9:0e:	CSC-HR3	112.171.1	Client ID .				
00:30:f9:17:	SIG-5601	112.171.1 ∨	Client ID :				
C		>					

Figure 4-5 Security

4.3.1 Password

Both ID and password are required to access this product. Note that changing the default password to another is highly recommended for security. The password should be longer than 8 characters.

- Input a password to use to [Password] and [Confirm password].
- Click the [Save] button.

4.3.2 Certificate

This is for reading a certificate stored in your product.

4.3.3 spFinder

These items are related to spFinder use.

Local search

If this item is not checked, you will not be able to search for or connect to the product on your local network. This item can be set only when the product is connected via USB.

Network connection

If this item is not checked, the product cannot be searched on the local network and the product cannot be connected on the local or remote network. This item can be set only when the product is connected via USB.

• Remote access

If this item is checked, the product can be connected from the remote network. The port number for this connection is TCP 57457. For security, this item is unchecked by default.

4.3.4 Client ID

This is NOT available for this product.



5 Management

5.1 Checking Status

This is a function to view the current status of the product. Information in the [Status] window is automatically updated every second. After searching and connecting the product with spFinder, press the [Status] button to display this window. When you open this window, the spFinder connects to the product and keeps the connection until you close the window or time out. While the connection is maintained, other hosts cannot access the product using the spFinder.

5.1.1 Product Information

• Product Information Window

This area shows some major information of your product.



Figure 5-1 Product Information Window



Item	Description
Product name	Product name
Pkgware	Model name, package version, Firmware version
File name	File name
Uptime	Elapsed time since it boots up (day / hour:min:sec)
IPv4	Assigned IPv4 address
Subnet	Assigned subnet mask
Gateway	Assigned gateway IP address
DNS	Assigned DNS server IP address
	Table 5-1 Product Information List

• Product Information List

5.1.2 Timeout

This is the timeout display function that appears in the upper right of the status window. When this time reaches zero, the connection between spFinder and the product is lost. The initial value is 30 minutes. If you move the mouse pointer in the internal area of the status window, the timer is reset to the initial value again.

5.1.3 Copy status

Clicking this button copies all information displayed in the current status window to the clipboard.



5.2 Changing Firmware

New firmware can be released when adding functions or fixing bugs. If you are using old firmware, you can upgrade it to the latest version. Firmware can be upgraded online or manually via spFinder.

5.2.1 Online Upgrade

If you can access to the Internet by your PC, the Firmware can be upgraded online.

Q spFinder		– 🗆 🗙
Advanced Function		
Firmware change	Network General Security	
Console IP Export setting values IP Import setting values IP Reboot a product 0. Firmware I 00:30:79:02: SMG-5400 112.1 00:30:79:02: SMG-5420 112.1 00:30:79:02: SIG-5430 112.1 00:30:79:02: SIG-5430 112.1 00:30:79:02: SIG-5450 112.1 00:30:79:02: SIG-5450 112.1 00:30:79:02: SIG-5600 112.1 00:30:79:02: SIG-5600 112.1 00:30:79:02: SIG-5601 112.1 00:30:79:02: SIG-5600 112.1 00:30:79:02: SIG-5601 112.1 00:30:79:02: SIG-5601 112.1 00:30:79:02: SIG-5601 112.1	IPv4 Obtain an IP address automatically Use static IP address scg-5632, 0.0.1, 3.4.0 abc online upgrade Iupgrade	1
00:30:f9:02: SIG-5561 112.171.	Gateway IP address	
00:30:f9:0e: SIG-5601 112:171.1 00:30:f9:17: SIG-5601 112:171.1	DNS IP address	
Search Results (21)	Save	

Figure 5-2 Online Upgrade

- Search and Connect to your product by spFinder.
- Click [Advanced] > [Firmware change] menu.
- Click [Upgrade] button selecting [Automatic online upgrade] menu.



Q spFinder			×
Advanced Function			
Firmware change	Network General Security		
Console Export setting values Import setting values Reboot a product 00:30:f9:02: SMG-5400 00:30:f9:02: SMG-5410 00:30:f9:02: SIG-5430 00:30:f9:02: SIG-5430 00:30:f9:02: SIG-5450 00:30:f9:02: SIG-5600 00:30:f9:02: SIG-5601 00:30:f9:02: SIG-5601 00:30:f9:02: SIG-561	Network General Security IPv4 IPv4 IP O Obtain an IP address automatically Use static IP address Use static IP address VIII.1 Pkgware : scg-5632, 0.0.1, 3.4.0 112.1 O Automatic online upgrade 112.1 O Manual upgrade Select File Interview 112.1 Upgrade 112.1 Select File	1	
00:30:f9:02: SIG-5561	112.171. Gateway IP address		
00:30:19:02: SIG-5561	112.171. Obtain DNS server address automatically		
00:30:19:0e: CSC-HR3	112.171.1 DNS IP address		
00:30:19:17: SIG-5601	112.171.1 V		
	,		
Search Results (21)	Save Status		

그림 5-1 Manual Upgrade

- Download a Firmware file to your PC.
- Search and connect to your product by spFinder.
- Click [Advanced] > [Firmware Change] menu.
- Select to [Manual upgrade] on the [Firmware Upgrade] window.
- Click [Select File] button and select the Firmware file on you PC
- Click [Upgrade] button.

5.3 Export/Import Setting Values

The [Export setting values] menu saves all setting values of the product as a file except for the password. The [Import setting values] menu loads setting values from a file which is saved by the [Export setting values] menu. Note that you need to click the [Save] button to apply the setting to your product. Find these functions at the [Advanced] menu.

Q spFinder			□ ×
Advanced Function			
Firmware change		Network General Security	
Console			
Export setting values Import setting values Reboot a product 00:30: 19 :02: SMG-5400	IP ^ 0.6.0. 112.171.1	IPv4 Obtain an IP address automatically Use static IP address Local IP address Subact mark	
00:30:f9:02: SMG-5410 00:30:f9:02: SMG-5420	112.171.1 112.171.1	Gateway IP address	
00:30:f9:02: SIG-5430	112.171.1	Obtain DNS server address automatically	
00:30:f9:02: SIG-5450 00:30:f9:02: SIG-5600 00:30:f9:02: SIG-5560 00:30:f9:02: SIG-5560 00:30:f9:02: SIG-5561 00:30:f9:02: SIG-5561 00:30:f9:02: SIG-5561 00:30:f9:02: SIG-5561 00:30:f9:02: SIG-5561 00:30:f9:02: SIG-5561 00:30:f9:02: SIG-5561 00:30:f9:02: SIG-5601 <	112.171.1 112.171.1 112.171.1 112.171.1 10.6.0 112.171.1 112.171.1 112.171.1 112.171.1 112.171.1 112.171.1 >	IPv6 IPv6 Disable Obtain an IP address automatically Use static IP address Local IP address Obtain DNS server address automatically DNS IP address	
Search Results (21)		Save Status	

Figure 5-3 Export/Import Setting Values



5.4 Factory Reset

Performing the Factory Reset, you can restore all the settings to the default including the password. Follow the procedure below by checking the status of STS LED.





6 Technical Support and Warranty

6.1 Technical Support

If you have any question regarding operation of the product, visit Customer Support FAQ corner and the message board on Sollae Systems' web site or send us an email at the following address:

- E-mail: support@eztcp.com
- Q & A board: <u>https://www.eztcp.com/en/support/qna.php</u>

6.2 Warranty

6.2.1 Free Repair Services

For product failures occurring within 2 years after purchase, Sollae Systems provides free repair services or exchange the product. However, if the product failure is due to user's fault, repair service fees will be charged or the product will be replaced at user's expense.

6.2.2 Charged Repair Services

For product failures occurring after the warranty period (2 years) or resulting from user's fault, repair service fees will be charged and the product will be replaced at user's expense.



7 Precaution and Exemption from Liability

7.1 Exemption from Liability

7.1.1 English version

In no event shall Sollae Systems Co., Ltd. and its distributors be liable for any damages whatsoever (including, without limitation, damages for loss of profit, operating cost for commercial interruption, loss of information, or any other financial loss) from the use or inability to use the SIG-5608 even if Sollae Systems Co., Ltd. or its distributors have been informed of such damages.

The SIG-5608 is not designed and not authorized for use in military applications, in nuclear applications, in airport applications or for use in applications involving explosives, or in medical applications, or for use in security alarm, or for use in a fire alarm, or in applications involving elevators, or in embedded applications in vehicles such as but not limited to cars, planes, trucks, boats, aircraft, helicopters, etc.

In the same way, the SIG-5608 is not designed, or intended, or authorized to test, develop, or be built into applications where failure could create a dangerous situation that may result in financial losses, damage to property, personal injury, or the death of people or animals. If you use the SIG-5608 voluntarily or involuntarily for such unauthorized applications, you agree to subtract Sollae Systems Co., Ltd. and its distributors from all liability for any claim for compensation.

Sollae Systems Co., Ltd. and its distributors entire liability and your exclusive remedy shall be Sollae Systems Co., Ltd. and its distributors option for the return of the price paid for, or repair, or replacement of the SIG-5608.

Sollae Systems Co., Ltd. and its distributors disclaim all other warranties, either expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose, with respect to the SIG-5608 including accompanying written material, hardware and firmware.

7.1.2 French version

• Documentation

La documentation du boîtier SIG-5608 est conçue avec la plus grande attention. Tous les efforts ont été mis en œuvre pour éviter les anomalies. Toutefois, nous ne pouvons garantir que cette documentation soit à 100% exempt de toute erreur. Les informations présentes dans cette documentation sont données à titre indicatif. Les caractéristiques techniques peuvent changer à tout moment sans aucun préavis dans le but d'améliorer la qualité et les possibilités des produits.

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• Rappel sur l'évacuation des équipements électroniques usagés

Le symbole de la poubelle barré présent sur le boîtier SIG-5608 indique que vous ne pouvez pas vous débarrasser de ce dernier de la même façon que vos déchets courants. Au contraire, vous êtes responsable de l'évacuation du boîtier SIG-5608 lorsqu'il arrive en fin de vie (ou qu'il est hors d'usage) et à cet effet, vous êtes tenu de le remettre à un point de collecte agréé pour le recyclage des équipements électriques et électroniques usagés. Le tri, l'évacuation et le recyclage séparés de vos équipements usagés permettent de préserver les ressources naturelles et de s'assurer que ces équipements sont recyclés dans le respect de la santé humaine et de l'environnement. Pour plus d'informations sur les lieux de collecte des équipements électroniques usagés, contacter votre mairie ou votre service local de traitement des déchets.



8 Revision History

Date	Version	Description	Author
2024.06.14.	1.0	1. Created	Roy LEE
2024.07.19.	1.1	1. Corrects some errors	Roy LEE
		2. Improves descriptions of some setting items	
2024.11.06.	1.2	1. Updates the table 1-1 specifications	Roy LEE
		2. Improves guidance regarding COM port connections	
2025.02.18.	1.3	1. Updates the table 1-1 specifications	Roy LEE
		2. Adds guidance on cable usage	

