

NX-SG2910 Cloud Managed Security Gateway Switch Product Guide

User Manual Introduction

<<User Manual>> It mainly introduces the product introduction, hardware connection, usage method and suggestions for use of Nodexon-NX-SG2910 gateway.

Chapter 1: Product Overview. Product characteristics, hardware / software specifications and appearance.

Chapter 2: Hardware Connections. Refers to the connection between the gateway and other devices.

Chapter 3: Product Guide, guides the operation of the gateway.

Chapter 4: Product Packaging and Use recommendations.

Obtaining Technical Assistance

Website:https://www.nodexon.com/ Technical Support Website:https://nodexon.com/support Community:http://www.nodexon.com/community Technical Support Email:support@nodexon.com Case Portal :https://www.nodexon.com/caseportal Website:https://www.nodexon.com/

Chapter 1: Product Overview

1.1 Brief introduction

NX-SG2910 is an Apollo-full Gigabit controller for switch applications such as chains hotel, star hotels, small and medium-sized businesses, etc., which is used for switch management of Hored's total solution. The NX-SG2910 provides five 10/100/1000Mbps adaptive Ethernet ports for up to 128 switches. The attached switch and the PD device can only implement the status check and management monitoring function by the Apollo smart transmission cloud management platform through the NX-SG2910 gateway, and can actively send out mobile phone and email alarms when abnormal, thereby achieving global unified maintenance and intelligent management.

1.2 Features

• Full Gigabyte Port

5 full Gigabit Ethernet ports, breaking through the traditional 100M limit, data transmission will not stuck.

• Qualcomm chip, more stable and powerful performance

Qualcomm high-performance chip, with 128M large memory, can greatly improve the network data processing rate

• Support for standardized protocols

Automatically identify and manage information of attached devices

• Cloud pass-through function

Implement the data transmission between cloud-gateway-switch-

Attached PD device.

• Supports up to 128 devices

Unique multi-capacity access technology ensures simultaneous access of 128 devices

1. 3 Hardware / software specifications

Hardware specification :

Chipset	Qualcomm high-performance chip		
Flash	16M		
RAM	128MBDDR		
	[·] 4个10/100/1000MbpsRJ45port (port 1~port 4)		
Network	·1个10/100/1000MbpsRJ45port (port5) ,can be		
interface	used as WAN		
	Standard Protocol : ·IEEE802.3i、IEEE802.3u、 IEEE802.3x		
LED	1power indicator		
Indicator	[•] 1system indicator		
	⁵ 5LINK/ACT indicator		

Power supply	Input : 100-240V50/60HZ Output : 12V- 1A Maximum power supply : 5.21W
	Resetbutton (long press 5~10s to restore factory default configuration)
Physical specification	[·] Dimension(LengthxWidth xHeight): <u>159*104.5*37*mm</u> [·] Weight:0.6kg
Environment al specification	Operation temperature: 0°~40°C Storage temperature : -40°~70°C Operation humidity : 10%~90%, non-condensing
Safety specification	CE/ROHS/FCC/CCC

Software specificaiton :

Transmissi on rate	. 1000Mbpsfull duplex		
Performanc e	Backplane bandwidth : 10Gbps (Non-blocking)		
specificatio n	RAM : 128M		
	. Support system alarms, log statistics		
	Support for up to 128 devices		
Protocol	Support automatic discovery of cameras for detailed information		

function	 Support discovery and access to PC terminal information
	 Support SNMP protocol, discover and manage devices which support SNMP protocol
	 Cloud pass-through function. Realize data transmission of the connected device
Safety specification	· CE/ROHS/FCC/CCC

1.4 Appearance

Front panel

Includes port indicator, system indicator, and power light, as

shown below

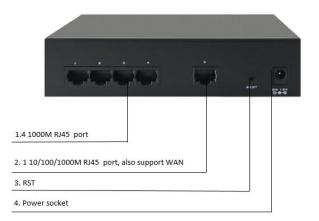


Indicat	Name	Statu	Description
or		s	
PWR	Power	On	Device power supply normal
	indicator	Off	The adapter is not connected / the power adapter is powered abnormally.

SYS	System indicator	Blinki ng	Device connection is normal
		Off	The port is not connected / the connection is abnormal.
LINK/A CT	Device connection indication	Off	Corresponding port is not connected / the connection is abnormal.
		on	Corresponding device connection is normal

Rear panel

Includes RJ45 port, power port, reset hole, as shown below

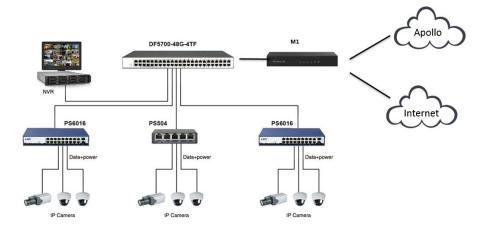


Port	Name	Description
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RJ	port1-4	Used to connect switches
45port		
1-4		
RJ 45	port5	Used to connect switches,
port 5		also can be used as WAN
		port
		Connect the power adapter
		to power the gateway
DC	DCpower	(supports 12V-1A, it is
	supply	recommended to use its
		own adapter)

Chapter 2 Hardware connection

Product connection diagram :



Chapter 3 Product Guidelines

- Login---Login on the Gateway Management Page
 - 1. After connecting to the gateway, enter the address:

192.168.254.254 to enter the management interface:

2. Enter the account number: admin, password: admin, you

can enter the gateway management interface

	NODE
1	Please enter your username.
	Please enter your password.
R	ernember password

System Information---Overview of NX-SG2910

Gateway Version Information and Number of attached

	â <u> </u>		
	Calevaty Gastewaty Calevaty O ms Off-line	Interchanger Online number 0	Access device
	tary o ma	Crime number 0	Unite number
System Information		System load	
Product ID	M1		
MAC address:	CE-06-1200-00-06	50	50
Firmware Version	V2.1.1-3.0.8-65983532	≈ cru ⇒	Membry Utilization: 32 %
Compile Time	Tue Jul 30 11:06:24 UTC 2019		32
Uptime:	Od 00h 01m	V 4	V 34
System Time:	Thu, Jan 01 08/05/20 1970 synchronic time system		
Ports Status			



LAN port setting---automatically assign IP address

NODERN		Chinese
System Status System Status LAN IP Cloud registered Administration	LAN IP To modify the Instanct address, you need to kig in with the modified address. Get LAN IP Automatically?	
System Log	IP Address Subnet Mask Defout(Saltency	1980 1980 2094 2086 2085 0
	DNS Server	Acolo

Cloud registration --- Support cloud registration, user binding

a. Cloud registration: Connect to the Apollo platform for

management and control devices through a registration code

	NCDECN			Chinese 🔿
	>	Cloud registered Customer binding		
	ystem Status			
110	ioud registered	Cloud connect APOLLO for control device		
	dministration	WAN IP Setting		
	ystem Log	Cloud Token	Сору	
		Cloud Domain	apollo hored net	
			Apply	

b.User binding: support binding between the gateway and the user

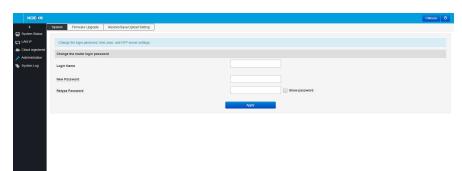
account

NCXENN		Chinese O
Cicud registered Customer binding		
System Status Low IP User name Cloud registered Aministration	Ponet15	
System Log		

System Management---Support system settings, firmware

upgrade, configuration file upload/import, reset

a. System Settings: Manage System Account Password



b.Firmware upgrade: support local firmware upgrade

NODE			Chinese O
> System Status	System Firmware Upgrade Restore/Save/Upload Setting		
LAN IP	Note: 1. The latest firmware version include updates on the previous version. 2. For a configuration parameter existing both in the old and new firmware. Its setting will be kept during the up	parade process.	
Administration	Product ID		
🔖 System Log	Product ID Compile Time	M1 Tue Jul 30 11:36:24 UTC 2019	
	Firmware Version	V2.1.1-3.0.8-65963532	
	New Firmware File	遗漏交帅 末选得任何文帅	
		Uplicad	

c.Restore/Export/Upload Settings: Complete the configuration upload,

export and restore default configuration

NCDEC+N		Chinese Ø
>	System Planaare Upprade Restore/Save/Upbrad Setting	
System Status	This function allows you to save current settings of M1 to a file, or load settings from a file.	
Cloud registered Administration	Factory default Restore	
🔖 System Log	Save setting Save	
	Restore setting Uptoot 地质文件 地质系文件	

System record---Support system general record file and routing table record

a. General record file: export view of system record

NCCE@N	Clines
>	General Log Routing Table
System Status	
	This page shows the detailed system's activities.
LAN IP	
	Jan 1 08:00:18 Hored sysleg.info syslegd started: BusyBox v1.19.4
	Jan 1 08:00:18 Hored kern.motice kernel: klogd started: BusyBox v1.19.4 (2019-07-03 17:41:49 CST)
	Jan 1 08:00:18 Hored kern.notice kernel: [0.000000] Linux version 3.3.8 (root8qsdk) (goc version 4.6.3 20120201 (prerelease) (Linux 0.02 4.6-2012.02)) #1 Wed Jul 3 19:05:57 CST 2019
	Jam 1 08:00:18 Hored kern.debug kernel: [0.000000] Nyloader: sysp=2006aaf5, boardp=2bbd75od, parts=34812da4
iem Log	Jam 1 08:00:18 Hored kern.info kernel: [0.000000] bootconsole [early0] enabled
	Jan 1 08:00:18 Mored kern.info kernel: [0.000000] CFU revision is: 00019750 (MIDS 74Mc)
	Jan 1 08:00:18 Mored kern.info kernel: [0.000000] SoC: Qualcomm Atheros gCA056X rev 0
	Jam 1 08:00:18 Hored kern.info kernel: [0.000000] Clocke: CFU:750.000MHz, DDR:650.000MHz, AMB:250.000MHz, Ref:25.000MHz
	Jam 1 08:00:18 Hored kern.info kernel: [0.000000] Determined physical RAM map:
	Jam 1 08:00:18 Hored kern.info kernel: [0.000000] memory: 08000000 0 0000000 (usable)
	Jam 1 08:00:18 Hored kern.info kernel: [0.000000] Initrd not found or empty - disabling initrd
	Jan 1 08:00:18 Mored kern.warn kernel: [0.000000] Zome PFN ranges:
	Jan 1 08:00:18 Mored kern.warn kernel: [0.000000] Mormal 0x00000000 -> 0x00008000
	Jan 1 08:00:18 Hored kern.warn kernel: [0.000000] Novable zone start PFN for each node
	Jam 1 08:00:18 Hored kern-warn kernel: [0.000000] Early memory PFW ranges
	Jam 1 08:00:18 Hored kern-warn kernel: [0.000000] 0: 0x00000000 -> 0x00008000
	dam 1 08:00:18 Hored kern.debug kernel: [0.000000] Cu node 0 totalpages: 32768
	Jam 1 08:00:18 Mored kern.debug kernel: [0.000000] free_area_init_node: node 0, pgdat 80365mb0, node_mem_map 81000000
	Jan 1 08:00:18 Mored kern.debug kernel: [0.000000] Normal zone: 256 pages used for memmap
	Jam 1 08:00:18 Hored kern.debug kernel: [0.000000] Normal zone: 0 pages reserved
	Jan 1 08:00:18 Hored kern.debug kernel: [0.000000] Normal zone: 32512 pages, LIPO batch:7
	Jam 1 08:00:18 Hored kern.debug kernel: [0.000000] popu-alloo: s0 z0 d32768 u32768 alloo=1*32768
	Jan 1 08:00:18 Hored kern.debug kernel: [0.000000] popu-alloo: [0] 0
	Jan 1 08:00:18 Mored kern.warn kernel: [0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages: 32512
	Jan 1 08:00:18 Mored kern.notice kernel: [0.000000] Kernel command line: board=APIS2 conscle=tty50,115200 mtdparts=spi0.0:256k(u-boot)ro,64k(u-boot-env),14528k(rootfs),1472k(kernel),64k(art),16
	Jan 1 08:00:18 Hored kern.info kernel: [0.000000] FID hash table entries: 512 (order: -1, 2048 bytes)
	Jan 1 08:00:18 Hored kern.info kernel: [0.000000] Dentry cache hash table entries: 14384 (order: 4, 45536 bytes)
	Jam 1 08:00:18 Hored kern.info kernel: [0.000000] Inode-cache hash table entries: 8192 (order: 3, 32768 bytes)
	Jan 1 08:00:18 Hored kern.warn kernel: [0.000000] Frimary instruction cache 64kB, VIFT, 4-way, linesize 32 bytes.
	Jan 1 08:00:18 Hored kern.warn kernel: [0.000000] Frimary data cache 32kB, 4-way, VIFT, cache aliases, linesize 32 hytes
	Jan 1 08:00:18 Mored kern.info kernel: [0.000000] Writing ErrCtl register=000007c0
	Jan 1 08:00:18 Hored kern.info kernel: [0.000000] Readback ErrCtl register=000007c0
	Jan 1 08:00:18 Hored kern.info kernel: [0.000000] Nemory: 125976k/131072k available (2429k kernel code, 5094k reserved, 467k data, 228k init, 0k highmen)
	Jan 1 09:00:18 Hored kern.info kernel: [0.000000] SUNB: Genalaba=9, HWalign=32, Order=0-3, MinObjects=0, CFUs=1, Nodes=1
	Jan 1 09:00:18 Hored kern.info kernel: [0.0000001 NM IBQ2:83
	Jam 1 08:00:18 Hored kerninfo kernels [0.000000] Calibrating delay loce 373,55 Boschips (lov=1867776)
	Jan 1 08:00:18 Hored kern.info kernel: [0.060100] pid max: default: \$2768 minimum: 301
	Jan 1 08:00:18 Hored kern.info kernel: [0.060000] Mount-cache hash table entries: 512

b.Routing table: View the specific routing status

•N		Chinese	9 1
nus (General Log Rouring Table		
	This page shows the detailed nouting status.		
1 3	estination Garbeay Ganmaak Fiapo HetriS Hed Tom Type Ifake 92.161.254.0 * 255.255.255.0 0 0 0 hr-Inn		
	Retesh		

Chapter 4. Packing list and usage recommendations 4.1 Open

the package and check the list below.

Item	Quantity	Description
Gateway	one	\
Power cable	1	For power supply
Warranty Card	1	For after-sales maintenance
User manual	1	Used to guide users to install and use the gateway

4.2 Suggestion

1. For safety reasons, non-professionals should not open the

product casing;

2. Pay attention to the danger of strong electricity and safe

protection when the product is powered on;

3. Please select the correct power adapter to supply power to the

gateway, and confirm whether it meets the requirements before use;

 Do not use the gateway in a humid environment to prevent water from entering the fuselage through the casing, resulting in damage to the machine;

 Please turn on the power after the line connection is completed;

6. When the product is powered on, please do not plug or unplug the cable except for special circumstances.

7. Do not use in places with excessive dust and electromagnetic radiation. Do not use the gateway in places with high temperature

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and no ventilation;

8. Please do not place heavy objects on the gateway to avoid accidents;

9. It is recommended to use the gateway indoors. It is recommended to add a waterproof box when using it outdoors. Note: The pictures in the manual are for reference only, whichever is subject to the actual product.