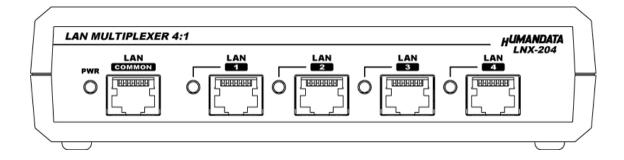


LAN Multiplexer 4:1 LNX-204 User's Manual

Ver. 1.3



HuMANDATA LTD.

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• Precautions

1 This product uses ordinary off-the-shelf electronic components, is therefore inappropriate for use in applications that require special quality or reliability and are expected to protect human	
	L
special quality or reliability and are expected to protect human	L
lives or prevent accidents, such as safety mechanisms in fields	
Do Not including space, aeronautics, medicine, and nuclear power.	
2 Do not be used underwater or in high-humidity environments.	
3 Do not be used in the presence of corrosive gases, combustible	
gases, or other flammable gases.	
4 Do not turn on power when circuit board surface is in contact w	vith
other metal.	
5 Do not apply voltage higher than rated voltage.	
6 This manual may be revised in the future without notice owing	; to
improvements.	
7 All efforts have been made to produce the best manual possible	e, but
if users notice an error or other problem, we ask that they noti	fy us.
Attention 8 Item 7 notwithstanding, HuMANDATA cannot be held liable for	or the
consequences arising from use of this product.	
9 HuMANDATA cannot be held liable for consequences arising fr	om
using this product in a way different from the uses described	
herein, or from uses not shown herein.	
10 This manual, circuit diagrams, sample circuits, and other cont	ent
may not be copied, reproduced, or distributed without permissi	on.
11 If the product emits smoke, catches fire, or becomes unusually	hot,
cut the power immediately.	
12 Do not install the control cables or communication cables toget	her
with the main circuit lines or power cables. In such an	
environment, it may result in malfunction due to noise.	
13 Be careful of static electricity.	

Revision History

Date	Revision	Description
December 26, 2018	v1.0	Initial release
July 9, 2019	v1.1	Replaced the order of section 7 and 8
September 5, 2019	v1.2	Added P, E, and D command Added password setting
March 9, 2021	v1.3	Added Additional notes to 4. Specifications

• Introduction

Thank you very much for purchasing our product LNX-204.

LNX-204 is a LAN multiplexer to switch 4 channel LAN port. LNX-204 can change the port physically by three ways: send simple command from PC via LAN, input control signal from an external contact point or change switches of the product body.

1. Product Configuration

The following lists the product configuration of the LNX-204.

LAN multiplexer (LNX-204)	1
microSD card with USB adapter	1
D-Sub 9pin M2.6 screw (#4-40 UNC is mounted)	2
AC adapter (DC5V)	1
Driver & Application CD	1

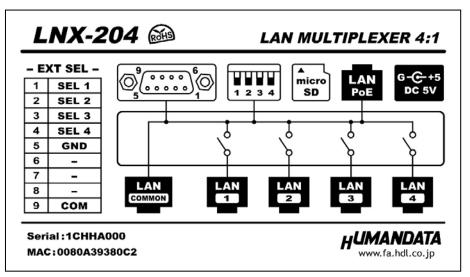
2. Product Summary

LNX-204 is a LAN multiplexer to switch 4 channel LAN port. LNX-204 can change the port physically by three ways: send simple command from PC via LAN, input control signal from an external contact point or change switches of the product body.

This is very useful to switch external network to internal network, and to connect with the network only when required. It can promote labor-saving for inspection process and auto-inspection system of LAN devices.

LNX-204 supports PoE. That makes it possible to be powered via a LAN cable (PoE compatible HUB or other is required). It can also be powered by the AC adapter. Network setting can be saved to and restored from a microSD card. Restoring the setting information from a microSD card is very convenient when replacing LNX-204.

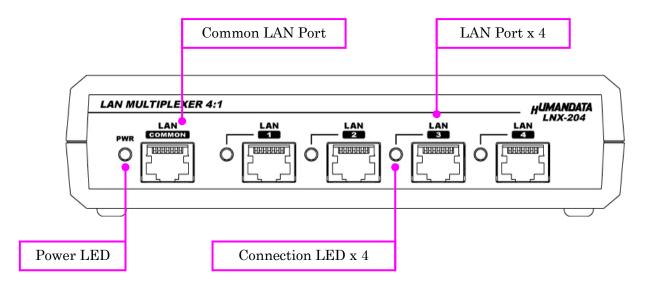
3. Overview



3.1. Block Diagram



3.2. Front Side

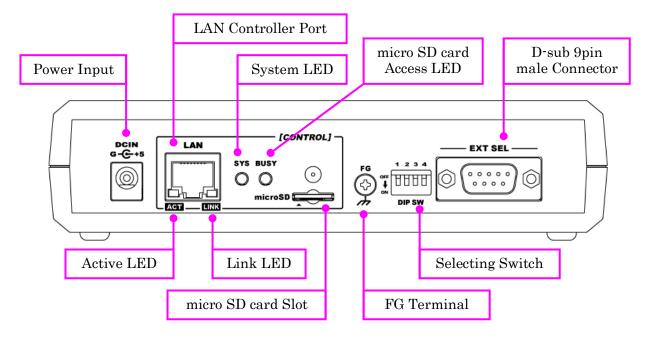


LEDs

	Name (color)	Function
PWR	Power LED (red)	Turn on during the power is supplied.
LAN1-4	Connection LED (red)	Turn on during connecting with common LAN Port.



3.3. Rear Side



LEDs

	Name (color)	Function	
ACT	Active LED (green)	Turn on during network port communication.	
LINK	Link LED (yellow)	Turn on when the power is supplied and LAN cable is connected normally.	
SYS	System LED (red)Blink few seconds during reading process.Turn on when system is ready.		
BUSY	micro SD card access LED (red)	Turn on during accessing micro SD card. When it turned off, you can extract the card.	

4. Specifications

Item	Description	Remarks
Model	LNX-204	
Power	5VDC, Supplied by AC adapter or LAN	PoE function supports
rower	connector (PoE function)	both mode A and B
Current Consumption	Less than 300mA	
	IEEE802.3 (10Base-T)	
Network Interface	IEEE802.3u (100Base-TX)	
	half-duplex / full-duplex (auto detected)	
Common/Selecting Port	10/100/1000 Base-T *1	
LAN Connector	RJ45 x 6	ESD protection ± 11 KV
Protocol	TCP / UDP / Telnet	
DG 000G Germenter	D-Sub 9pin Male	M2.6 screws are also
RS-232C Connector	(#4-40 UNC screws are mounted)	attached for accessary
	microSD card	For save and restore the
Setting Memory Card	microSD card	product setting SPI mode
	Power LED, Connection LED x 4	
LED	System LED, microSD card access LED	
	LINK Status LED (RJ45 Connector)	
	ACT Status LED (RJ45 Connector)	
Operating Ambient Temp.	-20 to 60 [°C] (-4 to 140 [°F])	
Operating Ambient Hum.	10 to 85 %RH	No condensation
Storage Ambient Temp.	-20 to 60 [°C] (-4 to 140 [°F])	permitted
Storage Ambient Hum.	10 to 85 % RH	
Weight	Approx. 250 [g]	Only main body
Dimensions	165 x 80.5 x 39 [mm]	With out projections
Dimensions	(6.496" x 3.169" x 1.535")	Without projections

*1 The operation of this product is confirmed with 10/100/100 BASE-T. But the product is inserted between LAN cables, speed reduction can be occurred. The communication speed is not guaranteed. When the LAN cable is long, using giga bit corresponding switching hub may improve the speed reduction.

* There may be cases that these parts and specifications are changed.

* Power saving function (suspend, standby, sleep and others) is not supported

* Please use the microSD card that is included in the package.

Item	Description	Remarks
Input	AC100 to 240V, 50/60Hz 0.3A	
Output	5VDC 2.0A	
Plug	2.1mm inner diameter	Positive Tip
Compatible DC Jack	2.1mm inner diameter	
Operating Ambient Temp.	0 to 40 [°C] (32 to 104 [°F])	
Operating Ambient Hum.	30 to 85 % RH	No condensation
Storage Ambient Temp.	-20 to 80 [°C] (-4 to 176 [°F])	permitted
Storage Ambient Hum.	10 to 95 % RH	
Wire Length	1.6m	
Weight	approx. 70 [g]	
Dimensions	46 x 34 x 25 [mm]	Without projections
Dimensions	1.811" x 1.339" x 0.984"	Without projections

4.1. AC adapter (Japan's specifications)

* This AC adapter is attached for use mainly in Japan. If you use in the other countries, please check the specifications above and plug shape.

* There may be cases that this part and specifications are changed.

Model Name	Image	Description
ACC-027		Attachment for vertical direction JAN: 4937920801096
ACC-028		Attachment for horizontal direction JAN: 4937920801102
ACC-031		Attachment for DIN rail type B JAN: 4937920801256
ACC-036	000	Neodymium magnet set JAN: 4937920801539

4.2. Optional Accessories



4.3. Power Supply

LNX-204 supports PoE function both A and B type as standard which make it possible to be powered via a LAN cable (PoE compatible HUB is required). It also can be powered by the AC adapter.

4.4. FG Terminal

Please connect FG terminal with earth ground as necessary.



4.5. Selecting Switch

You can change 4 LAN ports manually by setting selecting switch. When power on, the setting is recognized as the default port setting.

If sending changing port command after setting this switch, the command is prior. External contact point is also prior to this switch.

When you need to disable the selecting switch, set all the switches to ON.

Select No Port	Select LAN1 Port	Select LAN2 Port	Select LAN3 Port	Select LAN4 Port
1 2 3 4 OFFF ↓ ON Factory Setting	1234 0FF ↓	1234		1 2 3 4

5. External Contact Connector

D-sub 9 pin connector is mounted as external contact. When SEL1-4 is shorted with GND, the LAN port is switched.

e.g. Short SEL3 (pin no. 3) with GND (pin no.5): Common LAN port and LAN3 port is connected.

Notice

To prevent the damage, for SEL 1 to 4 please use no-voltage contact (dry contact) like relay contact or switches.

Pin No	Name	Direction	Remarks	
1	SEL 1	IN	Select LAN1	#4-40
2	$\operatorname{SEL} 2$	IN	Select LAN2	
3	SEL 3	IN	Select LAN3	
4	SEL 4	IN	Select LAN4	
5	GND	-	GND	
6	NC	-	-	SEL3 3
7	NC	-	-	SEL1 1
8	NC	-	-	
9	(COM)	-	Power Input (option)	
CASE	\mathbf{FG}	-	Connect with FG Terminal	D-Sub 9pin Male

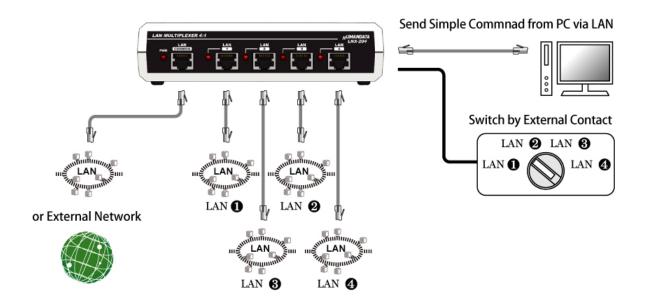
* #4-40 UNC screws are mounted by factory setting. You can change them to attached M2.6 screws.

* COM (pin No.9) is an option for DC 5V to 24V power input.

If you need to change LAN port directly from open collector or transistor, please contact us.

6. Connection examples

Change common port LAN or external network to LAN1-4.



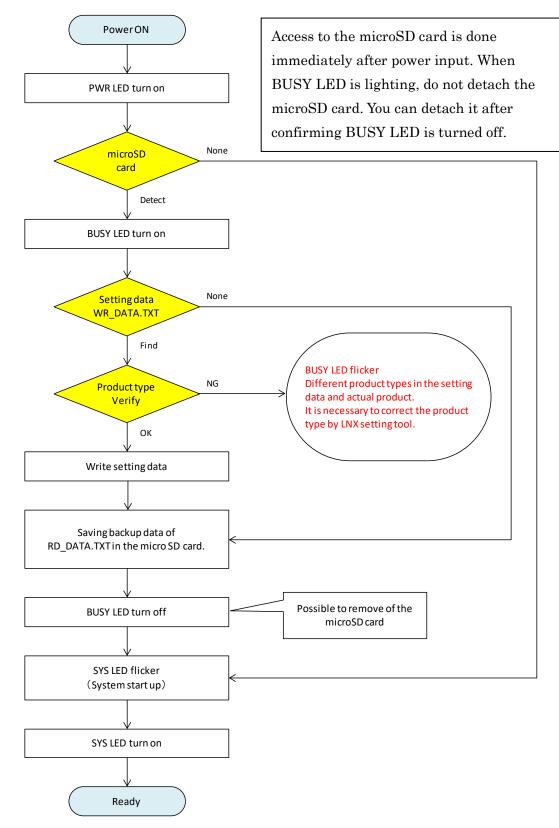
7. Setting Tool

Setting tool supports to save and read network setting by a microSD card. This tool does not require installation.

LNX SETTING TOOL Ver2.3		Read/Write from Netw	vork
Reading data	g data	Network	
asic Extension			
Network setting	Serial setting]	
IP address	Baudrate	19200	\sim
0 . 0 . 0 . 0 Subnet mask	Flow control	RTS/CTS(Hardware)	\sim
255.255.255.0 ~	Stop bits	1	\sim
Default gateway	Parity	None	\sim
Port number Protcol 10001 TCP ~	Data bits	8	\sim
Cenable Disable Remote IP address Remote Por O O O O O O O O O O O O O O O O O O	t number		
HuMANDATA support page] IX series : <u>www.fa.hdl.co.jp/jp/Inx-home.htr</u>	<u>nl</u>	Product selection Copy to clipbo	
pport page: www.fa.hdl.co.jp/jp/inx-suport.ht	<u>tml</u>	Exit	
			_

This is a screenshot from version 2.3

7.1. Access Flow of microSD card





7.2. Function

LNX SETTING TOOL Ver2.3		_ □	×	
microSD card Reading data	ng data	Read/Write from Network		
Basic Extension				
Network setting	Serial setting	9		
IP address	Baudrate	19200	\sim	
0.0.0.0	Flow control	RTS/CTS(Hardware)	~	
Subnet mask 255.255.255.0				
Default gateway	Stop bits	1	~	
0.0.0	Parity	None	\sim	
Port number Protcol	Data bits	8	\sim	
10001 TCP ~				
Remote setting(Tunneling mode) Enable Disable Remote IP address Remote Port number 0 0 0 10001 Connection method With any character Information in the microSD card Information in the microSD card Product select				
[HuMANDATA support page] LNX series : www.fa.hdl.co.jp/jp/lnx-home.h	Troduct Sele			
Support page: <u>www.fa.hdl.co.jp/jp/inx-suport.</u>	Copy to clipbo	ard		
HUMANDATA.		Exit		
roduct select : LNX-204 LAN Multiplexer 4:1				

Item	Contents
Reading data	Read setting data (RD_DATA.txt) from microSD card.
Saving data	Save setting data (WR_DATA.txt) to microSD card.
Natara	Read or write setting data over the network. LNX product and PC
Network	must be connected to the same network segment.
Product select	Display product select window.
Copy to clipboard	Copy a display image to clipboard.
Exit	Terminate the application.



[Basic Setting]

Basic Exte	nsion				
Network set	tting		Serial setting		
IP address			Baudrate	19200 ~	L.
0. Subnet ma	000_ sk		Flow control	RTS/CTS(Hardware) ~	i
255.255.2	255.0	\sim	Stop bits	1 ~	L.
Default gat	teway 0 . 0 . 0		Parity	None	
Port number	Protcol TCP V		Data bits	8 ~	
Remote set	ting(Tunneling mode)				
Remote IP	address	Remote Port	t number		
0.0	0.0.0	10001			
Connection	method				
With any o	haracter	\sim			

Item		Contents		
	If DHCP is not used to assign an IP address, enter it manually.			
IP address	Unique IP address must be used in the network. The def setting is 0.0.0.0 (DHCP is enabled)			
Subnet mask	A subnet mask defines the number of bits taken from the IP			
	address that are assigned for the host part.			
	A gateway address of a router which is allowed to communicate to			
Default gateway	other LAN segments. This address should be an IP address of the			
	router which is in the same LAN segment.			
	Enter the local port number. The default setting is 10001.			
	If you change the value, please avoid the following numbers. They			
	are allocated to	other function.		
Port number	1-1024	Reserved for well-known ports		
Port number	9999	Reserved for telnet setup		
	14000-14009	Reserved for old redirector		
	30704	Reserved for remote control of user I/Os		
	30718	Reserved for configuration		



	From the drop-down menu, select TCP or UDP.		
Protocol	Normally TCP is used, but when one-to-multiple communication		
1100000	like broadcast or sensitive-responsiveness is needed, please select		
	UDP. The default setting is TCP.		
Remote Setting			
(Tunneling mode)	Select to enable remote connection (tunneling).		
Enable/Disable	The default setting is disable.		
Remote IP address	Enter the remote IP address of tunneling target.		
Remote Port number	Enter the remote port number of tunneling target.		
Connection method	Select connection method to the target.		

* Serial setting of LNX-204 is fixed.



[Extension]

Pack control	I/O Buffer clear setting
◯ Enable	Input buffer from serial to LNX
Idle gap time 12 [msec] \sim	With network connect Ves No
Trigger character	With network disconnect Ves No
Any string(HEX) 0x 00 0x 00	Output buffer from LNX to serial
Check sum ● None ○ 1 byte ○ 2 byte	With network connect O Yes No
TCP keepalive	With network disconnect Ves No
5 sec Setting range : 0~65sec (0 : Disable)	Password setting
Telnet Com port control(RFC2217) O Disable Disable	TCP Connection

Item	Contents				
	Select to enable pack control.				
	Two packing algorithms define how and when packets are sent to				
	the network. The standard algorithm is optimized for applications in				
	which the unit is used in a local environment, allowing for very				
Pack control	small delays for single characters, while keeping the packet count				
Enable/Disable	low. The alternate packing algorithm minimizes the packet count on				
	the network and is especially useful in applications in a routed Wide				
	Area Network (WAN). Adjusting parameters in this mode can				
	economize the network data stream. The default setting is disable.				
	Select idle gap time from 12, 52, 250 or 5000 msec.				
Idle can time	After this idle gap time with no response from a serial device, data				
Idle gap time	is packetized and transmitted to the target. The default setting is				
	12.				
Trigger character	Select packet size and set trigger character (hexadecimal digits).				
Check sum	Select check sum size.				

	TCP keepalive time defines how many seconds LNX-204 waits
	during an inactive connection before checking its status. If the unit
TCP keepalive	does not receive a response 7 consecutive times, it drops that
ICI keepanve	connection. Enter a value between 0 and 65 seconds. 0 disables
	keepalive.
	The default setting is 5.
	Set to enable when control COM port using Telnet.
Telnet Com port	The product enables a RFC2217 function to use a control signal used
control (RFC2217)	in a serial port on a network. When it is not used this function, set
	to disable.
I/O buffer clear	Set it whether input/output buffer clear at the time of network
setting	connection or disconnection.
	If you set a password for TCP connection, you must enter the
	password before connecting. If you set a configuration password, you
	can restrict access to the setting screen that is displayed by entering
Password setting	the IP address from the browser.
I assword setting	TCP connection: half-width characters (up to 15 characters)
	Configuration: half-width characters (up to 16 characters)
	*Password is not read even if [Reading Data] or [Read from
	Network] is performed with this tool.
	* Password setting supported in product version 1.2 or later.



7.3. Write Setting Data

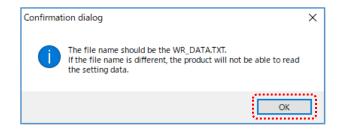
- 1. Open Setting Tool for LNX series (LNX SETTING TOOL Ver*.*).
- 2. Select "LNX-204 LAN Multiplexer 4:1", and click "OK".

Product select	×
Please select the product, and push the OK button.	
言語 ○日本語 ● English OK	

- 3. Enter the setting such as network or serial.
- 4. Insert a microSD card to PC (A USB adapter is included with the product)
- 5. Click "Saving data".

HU LNX SETTING TOOL Ver2.3		_	
	g data	Read/Write fro	om Network letwork
Basic Extension Network setting	Serial setting		
IP address		19200	~
Subnet mask 255.255.255.0 V	Flow control Stop bits	RTS/CTS(Hardware)	~

6. Click "OK" in the confirmation dialog.



- 7. Specify the microSD card as saving destination. Please do not change the file name from "WR_DATA.TXT".
- 8. Remove the microSD card from PC and insert it to the product. Please confirm that the product power is turned off.
- 9. When the product is powered on, the setting data is configured to the product automatically. After the data is stored in the product, microSD card is not needed any more. The start-up time can be shortened if the microSD card is removed from the product.

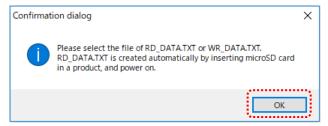
Please be careful not to detach the microSD card before BUSY LED is turned off.

7.4. Read Setting Data

- 1. After confirming the power is off, insert the microSD card to the product.
- When the product is powered on, the setting data will be reserved to the microSD card automatically. The data file name is "RD_DATA.TXT".
 Please be careful not to detach the microSD card before BUSY LED is turned off.
 * If there is the same file name in the microSD card, the data will be overwritten.
- 3. Insert a microSD card to PC (A USB adapter is included with the product)
- 4. Start the setting tool and click "Reading data".

HU LNX SETTING TOOL Ver2.3			×
microSD card	g data	Read/Write from Network	
Basic Extension			
Network setting	Serial setting	9	
IP address	Baudrate	19200 ~	
192 . 168 . 0 . 100 Subnet mask	Flow control	RTS/CTS(Hardware) 🗸	
255.255.255.0 ~	Stop bits	1 ~	

5. Click "OK" in the confirmation dialog.



6. Open the "RD_DATA.TXT" in the microSD card.



7. Setting data is loaded.

HU LNX SETTING TOOL Ver2.3			×	
microSD card Reading data	g data	Read/Write from Network		
Basic Extension				
Network setting	Serial setting]		
IP address	Baudrate	19200 ~		
192 . 168 . 0 . 100 Subnet mask	Flow control	RTS/CTS(Hardware) \lor		
255.255.255.0 ~	Stop bits	1 ~		
Default gateway 0.0.0	Parity	None \sim		
Port number Protcol 10001 TCP ~	Data bits	8 ~		
Remote setting(Tunneling mode) Enable Disable Remote IP address Remote Port number 0 0 Connection method With any character				
Information in the microSD card MAC address : 0080A3CE1F54				
Firmware : Ver.1.1.06.A0				
[HuMANDATA support page]	Product select			
LNX series : <u>www.fa.hdl.co.jp/jp/lnx-home.htm</u> Support page : www.fa.hdl.co.jp/jp/lnx-suport.ht	Copy to clipboard			
HUMANDATA: Exit				
Product select : LNX-204 LAN Multiplexer 4:1				



7.5. Write or Read setting data over the network

- 1. Enter the setting such as network or serial and click "Network".
 - * Please confirm that microSD card is not inserted in a product.

HU LNX SETTING TOOL Ver2.3			_		×
microSD card Reading data	g data	Rea	ad/Write f	from Netwo Network	ork
Basic Extension		, <u> </u>			
Network setting	Serial setting	9			
IP address	Baudrate	19200			\sim
Subnet mask	Flow control	RTS/CTS	(Hardware))	\sim
255.255.255.0 ~	Stop bits	1			~

2. Enter an IP address manually or click "Search". When some products are found, please select a number from a list.

Read/Write from N	Read/Write from Network			
O Input IP addre	◯ Input IP address			
192 168	0 4	Update		
Search results				
No	IP address	MAC address		
1	192.168.0.4	0080A3937CC9		
2	2 192.168.0.100			
Read data Write data				
Done				

- 3. Click "Read data" or "Write data"
 - * Even if some devices will be listed in the list and occur process time out. In this case, please change the PCs' network setting to the same network segment as the product or using microSD card.

8. Controller Command

You can control with simple single character command shown in the following table by using terminal software and keyboard. Each controller command is an ASCII text. The command is case sensitive.

	Command	Function	Format
1	'1'	Select LAN port 1	1 <cr></cr>
2	'2'	Select LAN port 2	2 <cr></cr>
3	'3'	Select LAN port 3	3 <cr></cr>
4	'4'	Select LAN port 4	4 <cr></cr>
5	'0'	Select no LAN port	0 <cr></cr>
6	'C'	Get active LAN port	C <cr></cr>
7	'V'	Get product version	V <cr></cr>
8	'P'	Set a password for port selection	P,{PRAM1},{PRAM2} <cr></cr>
9	'E'	Enable port selection	E,{PRAM} <cr></cr>
10	'D'	Disable port selection	D <cr></cr>

* P,E, and D command supported in product version 1.2 or later.

1. '1': Select LAN port 1

Format		1, <cr></cr>	
Functio	n	LAN port 1 is selected.	
	Send 1, <cr></cr>		
e.g.	Desmanas	1,1 <cr> *When selection of LAN port 1 is completed.</cr>	
	Response	Password required <cr> *When port selection is disabled.</cr>	

2. '2': Select LAN port 2

Format		2, <cr></cr>	
Function	n	LAN port 2 is selected.	
	Send	2, <cr></cr>	
e.g.	Demonse	2,2 <cr> *When selection of LAN port 2 is completed.</cr>	
Response	Password required <cr> *When port selection is disabled.</cr>		



Format		3, <cr></cr>	
Functio	n	LAN port 3 is selected.	
	Send	3, <cr></cr>	
e.g.	Demense	3,3 <cr> *When selection of LAN port 3 is completed.</cr>	
Response Pa		Password required <cr> *When port selection is disabled.</cr>	

3. '3': Select LAN port 3

4. '4': Select LAN port 4

Format		4, <cr></cr>	
Functio	Function LAN port 4 is selected.		
	Send 4, <cr></cr>		
e.g.	Dognomac	4,4 <cr> *When selection of LAN port 4 is completed.</cr>	
Response		Password required <cr> *When port selection is disabled.</cr>	

5. '0': Select no LAN port

Format		0, <cr></cr>	
Functio	n	LAN port is not selected.	
	Send 0, <cr></cr>		
e.g.	Dognomao	0,0 <cr> *When no selection of LAN port is completed.</cr>	
Response		Password required <cr> *When port selection is disabled.</cr>	

6. 'C': Get active LAN port

Format		C, <cr></cr>	
Function	n	Get the active LAN port.	
	Send	C, <cr></cr>	
e.g.	Response	C,1 <cr> *When LAN port 1 is selected.</cr>	

7. V : Get product version

Format		0, <cr></cr>	
Function Get the product version.		Get the product version.	
	Send	V, <cr></cr>	
e.g. Response LNX-204 Ver.1.2 <cr> *When version is 1.2.</cr>		LNX-204 Ver.1.2 <cr> *When version is 1.2.</cr>	



Forma	ıt	P,{PRAM1},{PRAM2} <cr></cr>
Function		Set a password for port selection. The default password is set to
		"0000". After setting a password other than "0000", enable the port
		selection with the E command to enable the 0 to 4 command.
		PRAM1 : Enter the old password.
Param	otor	half-width characters (up to 4 characters)
Faram	leter	PRAM2 : Enter the new password.
		half-width characters (up to 4 characters)
Send		P,0000,1234 <cr> *When changing the password from 0000 to 1234.</cr>
e.g.		Password setting completed <cr></cr>
	Response	* When password change is completed
		Password do not match <cr> *When password do not match.</cr>

8. 'P': Set a password for port selection

9. 'E': Enable port selection

Format E,{PRAM} <cr></cr>		E,{PRAM} <cr></cr>
Function		Port selection is enabled. The default password is set to "0000". After
		setting a password other than "0000", E command is enabled.
D		PRAM : Enter the password.
Param	leter	half-width characters (up to 4 characters)
	Send	E,1234 <cr> *When a password is set to "1234".</cr>
e.g.	g. D	Enable LAN port control <cr> *When port selection is enabled.</cr>
	Response	Password do not match <cr> *When password do not match.</cr>

10. 'D': Disable port selection

Format		D, <cr></cr>
Function		Port selection is disabled.
e.g.	Send	D, <cr></cr>
	Response	Disable LAN port control <cr></cr>

*If the product receives an undefined command, "Undefined command<CR>" will be returned.

* <CR>: Carriage Return (0x0D)

9. Virtual COM Port

You can use the software that creates Virtual COM ports on your PC. You can use the COM port to communicate to an IP address of LNX-204. Please refer to the "LNX series virtual COM port User's Manual" that are stored on the product supplied CD for details.



10. Additional Documentation and User Support

The following documents and other supports are available at https://www.hdl.co.jp/en/faspc/LNX/lnx-204

- LNX SETTING TOOL
- Virtual COM Port
- Outline Drawing ... and more.

11. Warranty and Compensation

Please refer to the following URL for the warranty. https://www.fa.hdl.co.jp/en/fa-warranty.html

LAN Multiplexer 4:1 LNX-204

User's Manual

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HuMANDATA LTD.

1-2-10-2F, Nakahozumi, Ibaraki
Osaka, Japan
ZIP 567-0034
81-72-620-2002 (Japanese)
81-72-620-2003 (Japanese/English)
https://www.fa.hdl.co.jp (Japan)
https://www.fa.hdl.co.jp/en (Global)