LED Light Source

Ethernet Manual

(XPort [Lantronix] Application Tool)

HAYASHI-REPIC CO., LTD.

1. Outline

This section describes the default settings on the PC side for operating the light source via Ethernet. The Ethernet device of this measure uses Lantronix X-PORT.

About the operation method using command signal, please see the "Command Manual". The OS is Windows 10.

2. Connection image view



3. Connector

RJ45 Connector pin assignment

Signal Name	DIR	Contact	Primary Function
TX+	Out	1	Differential Ethernet transmit data +
TX-	Out	2	Differential Ethernet transmit data -
RX+	In	3	Differential Ethernet receive data +
RX-	In	6	Differential Ethernet receive data -
Not used		4	Terminated
Not used		5	Terminated
Not used		7	Terminated
Not Used		8	Terminated
SHIELD			Chassis ground

Display function



4. Prepare program

· Device setting program

XPortDevice setting program ^rDeviceInstaller_J Download site <u>http://ltxfaq.custhelp.com/app/answers/detail/a id/644</u> (Please search [DeviceInstaller] for the latest version)

· Virtual port allocation program

XPort Virtual port allocation program ^rComPort Redirector_J Download site <u>http://ltxfaq.custhelp.com/app/answers/detail/a id/928</u> (Please search [ComPort Redirector] for the latest version)

Please download each program and install. For more information, please refer the Lantronix manufacturer site.

5. Installation process

Setting the XPort

- · It uses DeviceInstaller to do the default settings for the "XPort".
- · Prepare an IP address that you will optional set (use).
- · If you do not set it optional, it will be assigned automatically.
- · Connect the LAN cable to the light source and turn on the power.
- ・Start DeviceInstaller, and if there is no device on the right side "Type(タイプ)", click "Search(検索)".
- \cdot If the device is not displayed, check the LAN cable connection and power on of the light source.
- \cdot If you connect the LAN cable, "restart" the power supply.
- \cdot If you connect the LAN cable when the power is on, the device may not be detected correctly.
- · If a device is detected, [XPort-03 / 04] will be displayed in black color.
- · If it displays in red color, check the LAN cable and power (as if there were no device).



- If you double-click the detected device that does display the device setting information.
 Select the "Web Configuration(Webコンフィグレーション)".
 Click on the "Navigate".

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□ ● ● □ ーカル エリア接続 (192.168.1.31) □				1
📄 🛅 XPort	🥶 言手希田のリリロー 下一			
🖻 🦇 XPort-03/04 - firmware v6		70/77	値	
······ 32 192.168.1.40	17 Ron	26月1 DHCP Device Name		
	E	グループ		
		コメント デバイスファミリー	XPort	
		<u>タイプ</u>	XPort-03/04	
		ID ハードウェアアドレフ	X5 00-20-4A-C6-BD-90	
		ファームウェアバージョン	6.6	
		エクステンデッドファームウェアバー	6.6.0.2	
		IPアドレス	192.168.1.40	
		サポート:ダイナミックPP	Dynamically	
		DHCPでの取得 POOTPでの取得	終了	
		RARPでの取得	無効	
		自動IPの取得	終了	
		サフネットマスク デフォルトゲートウェイ	255,255,255,0	
		最大COBパーティション数	6	
		ポート数	1	
		ICPキーノバライノ有効範囲 Telnet有効	45 終了	
		Telnetポート	9999	
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▼ デバイスのナビゲーションを開始するためにGOボタンをクリックして下さい。
▲ レディー

· It output a warning, click the "OK".

192.168.1.40 へ接続			?×
		A	
(null) のサーバー 192:	168.1.40 (こはユーザー	-名とパスワードが必要	見です。
警告: このサーバーは、 することを要求していま	ユーザー名とパスワー す (安全な接続を使う	ドを安全ではない方法 わない基本的な認証	去で送信)。
ユーザー名(山):	2		•
パスワード(<u>P</u>):			
	🔲 パスワードを詰	2憶する(<u>R</u>)	
		OK +v	セル

· XPort Home is displayed.

·Click the "Serial Settings" to set the communication terms.



- · Setting Baud Rate:9600, Data Bits:8, Parity:None, Stop Bits:1
- · Click the "OK".
- · Clicking the "Apply Settings", it updates the data in the XPort.
- If the update is complete, it will be returned to the top page.
- · If check to the update status, click the "Serial Settings" again.
- · This completes the Xport settings.
- · Next, use the "Com Port Redirector" to set the virtual port on the PC side.

デバイスの詳細 Webコンフィ	ギュレーションTelnet設定
< 🔁 🛞 アドレス http:/	/192.168.1.40/secure/Itx_conf.htm 🔽 🔁 😌 🖓 🖾
LANTRO	Firmware Version: V6.6.0.2 MAC Address: 00-20-4A-C6-BD-90
۱۵۲ Network	
Server	Channel 1
Serial Tunnel	Disable Serial Port
Hostlist	
Serial Settings	Port Settings
Connection	
Email	Baud Rate: 9600 🔽 Data Bits: 8 💌 Parity: None 💌 Stop Bits: 1 💌
Trigger 1 Trigger 2	
Trigger 3	Pack Control
Configurable Pins	Enable Packing
Apply Settings	Idle Gap Time: 12 msec 💌
Apply Defaults	Match 2 Byte Sequence: O Yes O No Send Frame Immediate: O Yes O No
	Match Bytes: 0x100 0x100 (Hex) Send Trailing Bytes: I None O One O Two
	Flush Mode
	Flush Input Buffer Flush Output Buffer
	With Active Connect: O Yes O No With Active Connect: O Yes O No
	With Passive Connect: O Yes O No With Passive Connect: O Yes O No
	At Time of Disconnect: O Yes O No At Time of Disconnect: O Yes O No
	₩
企 Katural	Horne Home
Server Please wa	ait while the configuration is saved
Serial Tunnel The unit	will reboot in order for the settings to be applied.
Channel 1	
Serial Settings Connection	Tripper 3 Configure 2 Pros
Email	Apply Settings Apply Debuts
Trigger 2	Device Server Configuration Manager Version 1.7.0.1
Trigger 3 Configurable Pins	Updating
Apply Settings	
Apply Defaults	
	这一边搬示不能这次

"Setting the virtual port on the PC side"

- · Start up the "CRP Manager".
- · The [Com Ports] are displayed.
- · Click the "Add and Remove Com Ports" and select the port number to use.
- The Port 10 is used in this description.
- · Check the "Com10" and click the "OK".

OPR Manager								_
File <u>C</u> om Port <u>D</u> ev	ice <u>T</u> ools <u>H</u> elp							
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È Con 1 - 6	esible)	Com 1 (Inaccessib			ort Com Status	TRECOUR CLARK	0	
Con 6 (Inacce	essible)	Com o Unaccessio	(le)					
	Com Ports							
	Com1	Com21	Com41	Com61	Com81	Com101	Com121	
	Com2	Com22	Com42	Com62	Com82	Com102	Com122	
	Com3	Com23	Com43	Com63	Com83	Com103	Com123	
	Com4	Com24	Com44	Com64	Com84	Com104	[Com124	
	Comb	Com25	Com45	Comb5	Com85	Com105	Com125	
	Como	Com20	Com40			Com100	Com120	
	Com7	Com27	Com47		Come?	Com107	Com127	
		Com20	Com48				Com120	
	Com10	Com29		Com70		Com110	Com129	
		Com31	Com51	Com71			Com131	
evices	Com12	Com32	Com52	Com72	Com92	Com112	Com132	
Address		Com33	Com53	Com73	Com93	Com113	Com133	
		Com34	Com54	Com74	Com94	Com114	Com134	
	Com15	Com35	Com55	Com75	Com95	Com115	Com135	
	 Com16	Com36	Com56	 Com76	Com96	Com116	Com136	
40		Com37	Com57	Com77	Com97	Com117	Com137	
Jy	🗖 Opm18	Com38	Com58	Com78	Com98	Com118	Com138	
	□ Com19	Com39	Com59	Com79	Com99	Com119	Com139	
	Com20	Com40	Com60	Com80	🗖 Com100	🗖 Com120	Com140	
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				neck (hange)		256		
	Select A	II Select N	on Un	check (Range)	1 🗄 to	256 🚍		

- · "Com10" is added to the main screen.
- · Click the "Com10" to switch to change the Setting screen.
- · Click the "Search For Devices" to search for XPort devices.
- The searched XPort is displayed in the Devices column. The searched XPort is displayed in the devices column.

If it is not displayed, please check to the LAN cable is connected or the light	it source power on.
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CPR Manager Eile <u>C</u> om Port <u>D</u> evice	<u>T</u> ools <u>H</u> elp							
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om Ports All Com Ports (3)		Com Port List	75 4 11			N		[oor
È-Com 1 - 10		Com Port Com 1 (Inaccessible)	IP Address	TCP Port Co	m Status	Network Status		221
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Sile Com Port Dev	ice Tools H							
Corn Ports		Settings						
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Com 1 Unacce Com 6 (Inacce Com 10 (New)	ssible) ssible)	Window's Port Nam Window's Device N	ne: lame: vame:		c.	Com Status: Nativork Status:	Error	nnected
		Reset to Default	ts Cancel Edi	ts		Civility Oracus.		
		Buffer Writes	(Keep checked for be	etter write perfor	mance)	7 🕂 Connecti	ion Tin	neout (in seconds)
		Server Reconn	ect			Timeout Reco	nnect	0 🚍 Reconnect Lim
		Listen Mode	Normal – p	ort closed after c	lisconnect	т	P Por	t Add To
		TCP KeepAlive	7200000	KeepAlive Time	(msec)	1000 \Xi KeepA	live In	terval (msec)
		■ RFC 2217 C	TR (In): Tie DTR to	DGD, DSR alway	/s active	v		
			x Empty: CPR Trans	mit Buffer Empty		7		
-		Service Host	TCP Po	nt WARNIN then UDF firewall's	G! If the Pports 307 exclusion	Host is on the a '18, 43282 and list. You may e	other s 43283 xperie	side of a router or a rem 3 may need to be added ence trouble opening thi
r		2 3		Also, son	ne legacy o	- levice servers r	espon	d on UDP port 43283.
1		4		unable to this mach	connect l	to a device serv king this port.	er, or Press	e possible cause is the the 'Add Rx Port' butto
		6		port to th port has	e Firewall. already be	If the button en added and c	captio an be	n reads 'Remove Rx Pc removed by pressing the
IP Address	TCP Port	Device Name	Port Name		HW Addres	s	ID	Product
								odified
Devices								
IP Address	TCP Port	Device Name	Port Name		HW Addre:	SS	ID	Product
192.168.1.40 (1)	10001				00:20:42	A:C6:BD:90	X5	XPort-03
	1	1						

- · Check the "IP Address" in the displayed Devices column and double-click the address.
- · Displayed in the Host item in Setting.
- Finally, click the "Save Settings" to entry.
 A confirmation of entry will be displayed. Click the "Yes".

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<u>Fileso</u> m Port <u>D</u> evice <u>T</u> ools <u>I</u>	<u>H</u> elp				
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ComPorts	Settings				
⊟ All Com Parts (3)	Com 10 (New)				
	Window's Port Name:				
Com 6 (Deccessible) Com 10 (New)	Window's Device Name:		Com Status:	Error	
	window's Service Name:		Network Status:	Disconne	icted
	Reset to Defaults	Cancel Edits			Ĥ
	Buffer Writes (Kee	p checked for better write pert	iormance) 7 📇 Connec	tion Timeou	ut (in seconds)
	🗖 Server Reconnect		Timeout Red	connect 0	Reconnect Lim
	No Net Close				
	Listen Mode	Normal – port closed afte	r disconnect 🖵	TCP Port Г	Add To
	TCP KeepAlive	7200000 📩 KeepAlive Ti	me (msec) 🛛 🚺 Keep	Alive Interv	/al (msec)
	RC 2217 DTR @); Tie DTR to DCD, DSR all	ways active 👻		
	(TruPort) Tx Emp	ty: CPR Transmit Buffer Em	pty 🔽		
	Corvice Hest		INGL If the Host is on the	other side	of a router or a rem
	1 192.168.1.40	10001 then U	DP ports 30718, 43282 an	d 43283 m	ay need to be added
	2		is exclusion list. Tou may	experience	e trouble opening thi
	3	Also, s	ome legacy device servers	respond a	n UDP port 43283.
	5	this ma	chine is blocking this port.	Press the	e 'Add Rx Port' butto
	6	port to	the Firewall. If the button as already been added and	n caption r can be rei	eads 'Hemove Hx Pc moved by pressing th -
Devices					8
TCP Port	Device Name	Port Name	HW Address	ID Pr	oduct
192.168.1.40 (1) 10001			00:20:4A:C6:BD:90	X5 XI	Port-03
Searching				Modil	fied:



- If entry is completed, "Com10 (New)" of ComPorts will change to [Com10].
 This completes the virtual port settings.

🔷 CPR Manager	
<u>File ComPort D</u> evice <u>T</u> ools <u>H</u> e	lp
3 🗐 🔑 🖻	
Com Ports	Settings Com 10 Tests
🖃 All Com Ports (3)	-Com 10
⊡ - Com 1 - 10	
Com 6 (Inaccessible) Com 6 (Inaccessible)	Window's Port Name: Lantronix CPR Port (COM10) Window's Device Name: ¥Device¥CprDevice10
	[window's Service Name: _ Oprorvr
	Reset to Defaults Cancel Edits
Change the Com(New) to	Buffer Writes (Keep checked for better write perfo
	No Net Close
	Listen Mode Normal - port closed after
	TCP KeepAlive 7200000 🚍 KeepAlive Tim
	E BEC 2217 DTR (m): Tie DTR to DCD, DSR alw
	(TruPort) Tx Empty: CPR Transmit Buffer Empt
	Service Host TCP Port WARNI
	1 192.168.1.40 10001 then UD firewall'
	Also, so unable i

6. Change the IP address

"IP assignment after search"

- · Change the IP address as needed.
- · The factory settings are as follows.

Item	Set value	Note	
IP address	192.168. 0.101	Factory default	
Sub-net mask	255.255.255.0	Factory default	
Default gateway	0. 0. 0. 0	Factory default	

· Use DeviceInstaller to change the IP address.

- · If DeviceInstaller to starts up, click "IP assign(IP割当)" and select "Assignment method(割当方法)".
- ・Check "Assign specific IP address(特定IPアドレスの割当)" and click "Next(次へ)".



- · Enter the "changed IP address" in the IP address field and click "Next(次へ)".
- · Click the "Assign(割当)" button.
- · After completed the settings, click the "Finish(終了)" button.



· After update, the changed IP address will be displayed.

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◆検索 ●無効にするデバイス ● IP到 日 ● ● Lantronix Devices - 1 device(s) 日 ● ● ● 日 ーカル エリア接続 (192.168.1.32) 日 ● ● XPort	当 ● アップグレード タイプ 名前 グル ● XPort-03/04	レープ IPアドレス 192.168.1.150 00-20-4A-C6-BD-90	オンライン

"IP assignment before search"

- If inquiring about the device ID at that assigning an IP address, select the MAC address. (It is written on the XPort inside the main unit)
- · After setting the device ID, the process is the same as "IP assignment after search".
- · If you cannot set the IP address, refer to "Notes on IP assignment".

😒 I P アドレスの割当	<u></u>		
	デバイスID		
	デバイスのハードウェアアドレスを入力してください。 組込みタイプのデバイス でない場合は、通常デバイスの裏面に記載されています。 (例:12-34-56- 78-9A-BC)		
	00-20-4A-C6-BD- Ж		
	<戻る 次へ> キャンセル		

"Notes on IP assignment".

- · It is need to match the subnet mask to the PC at that an IP assigning.
- · If it a different subnet assigning in the PC, the IP address cannot be changed.
- · In that case, if you search with DeviceInstaller, it will be displayed in red color.
- \cdot For setting, match the subnet mask on the PC side.

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□-聖 Lantronix Devices - 1 device(s) □-盤 ローカル エリア接続 (192.168.1.32) ④- ▲ XPort	タイプ	名前	グループ	IPアドレス	ハードウェアアドレス	ステータス		
	₩XPort-03/04			192.168.2.150	00-20-4A-C6-BD-90	無応答		

- \cdot Do not set the same IP address when setting while connecting several devices. Also, do not connect devices with the same IP address.
- · If there is a device with the same address on the network, it will not be detected even if it is searched.