## Turbo Ring 设置和测试

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MOXA 技术支持 2017-10

#### 一、准备

如果设备是新产品没有做过配置的话,先将 PC 的有线网卡 IP 地址修改成 192.168.127.xxx (因为交换机默认的网段是 192.168.127.0)

Internet 协议版本 4 (TCP/IPv4) 属性	? ×
常规	
如果网络支持此功能,则可以获取自然需要从网络系统管理员处获得适当	封浙指派的 IP 设置。否则, 当的 IP 设置。
◎ 自动获得 IP 地址(0)	
IP 地址(I):	192 . 168 . 127 . 100
子网摘码(U):	255 .255 .255 .0
默认网关 @):	· · ·
● 自动获得 DWS 服务器地址 ֎)	
││ ──◎ 使用下面的 DNS 服务器地址 @	D:
▲ 首选 DNS 服务器 (2):	· · ·
备用 DNS 服务器(A):	· · ·
□ 退出时验证设置 (L)	高級 (2)
	确定 取消

#### 二、交换机设置

#### 1、搜索交换机

将所有交换机级联并进行设置,请不要将交换机练成环网。 连接电脑的有线网口到交换机,并关闭电脑的无线网卡;并运行 edscfgui 软件,点击 Search。 edscfgui 下载地址: https://www.moxa.com/drivers/EDS/utility/V5.3/edscfgui.exe

📅 Moxa Ethernet Switch Ar	nd Video Server Configurator				
List Server Firmware Co	onfiguration Convert View	Help			
2 2 2 8 7 2 2	2 🛋 🖹 🕅				
Model IP Addr	ess MAC Address	Status	Name	Locatic	
📅 Moxa Ethernet Switch And Video Ser	rver Configurator				
List Server Firmware Configuration	Convert View Help				
Model IP Address M/	AC Address Status Name	Locatic			
	Broadcast Search			×	
	_ Status				
	Total Count = 3, timeout = 3sec		Stop		
		Macadhuu			
	EDS-518E-SS-SC-4 192.168.127.253 EDS-405A-T 192.168.127.251	00:90:E8:5C:4E:A3 Fi 00:90:E8:17:B4:BC Fi	nish nish		
	EDS-408A 192.168.127.102	00:90:E8:16:12:F7 Fi	nish		
	1				
<		>			

## 2、登录交换机

点击 edscfgui 软件中的 web 登入

ት Moxa Ethernet Switch And Video Server Configurator										
List Server Firmw	List Server Firmware Configuration Convert View Help									
2 2 2		🖹 💽 🕷 🕑	λ							
Model	IP Address	MAC Address	Status	Name	Locatic	Model	EDS-518E-SS-SC-4GTXSFP			
EDS-518E-SS-SC	192.168.127.2	00:90:E8:5C:4E:A3	Locked		Switch	Name TP Address	192.168.127.253			
EDS-405A-T	192.168.127.2	00:90:E8:17:B4:BC		Managed Re	Switch	Netmask	255.255.255.0			
EDS-408A	192.168.127.1	00:90:E8:16:12:F7		Managed Re	Switch	Gateway	0.0.0.0			
						MAC Address	00-90-E8-5C-4E-A3			
						Full SerNo.	TAFJD1040561			
						Serial No	00561			
						Firmware Ver.	V5.1 build 16072215			
						Location	Switch Location			

或在 Web 浏览器中输入交换机的 IP 地址,用户名: admin,默认密码: 空或 moxa

EDS-400A 系列默认密码为空

MOX^ EtherDevice <sup>™</sup> Switch EDS-408A Series					
Model : EDS-408A Name : Managed Redundant Switch 04430 Location : Switch Location	IP : 192.188.127.102 Setial No : 04430	MAC Address : 00-00-E8-16-12-F7 Firmware vestion : V3.5 build 15080711	PWR1 - MSTR/HEAD -	PWR2 = FAULT = CPLR/TAIL =	
51		Account : admin	<u>-</u>		
		Lo	gin		
EDS-500E 系列點	犬认密码为	moxa			
ΜΟΧΛ					î
		Movo Inductrial E	thornot Switch		
		EDS-518E-SS-SC-	4GTXSFP	'	
57		Username : a	dmin		
		Password :	•	Login	

# 3、设置 Turbo Ring

WEB**SERVER** 

EDS-400A 系列点击 Communication Redundancy,在 Redundancy Protocol 中选择 Turbo Ring V2 模式。



### EtherDevice<sup>™</sup> Switch EDS-405A Series

🗇 Main Manu	Communication Redundancy
	Now Active DSTD (IEEE 802 1D 2004)
CNIMD Settings	Ring 1 Ring 2
Communication Redundancy	Status Status
Traffic Prioritization	Master/Slave Master/Slave 1st Ring Port Status 1st Ring Port Status
	2nd Ring Port Status 2nd Ring Port Status
Multicast Eiltering	Coupling
Bandwidth Management	Coupling Port status Primary Port Backup Port
Auto Warning	
Line-Swap East Recovery	Settings
E Set Device IP	Redundancy Protocol Turbo Ring V2
Diagnosis	Enable Ring 1 Enable Ring 2
Monitor	Set as Master Set as Master
MAC Address Table	2nd Port 2 2nd Port 2 2nd Port 3 7
🗉 🧰 System Log	
E Industrial Protocol	Coupling Mode
	Primary Port 1 x Backup Port 1 x
webserver	Activate
Best viewed with IE 7 above at resolution 1024 x 768	
开启第一个环,并设置	启用 Turbo Ring 的两个端口。点击 Activate 启用。
Enable Ring 1	Enable Ring 2
Set as Master	Set as Master
Redundant Ports 1st Port	A V Redundant Ports 1st Port 2 V
	and Bart 2 =
2nd Port	5 <b>T</b>
Enable Ring Coupling	
Coupling Mode Dual H	oming T
buarri	
Primary Port 1 T	Backup Port 1 T
	Activate

EDS-500E 系列点击 Redundancy Protocol,选择 Turbo Ring V2 模式。

ΜΟΧΛ°	EtherDevic	e™ Swi	tch EDS	-51 <b>8E</b> S	Series		
Model : EDS-518E-SS-SC-4GTXSFP Name : Location : Switch Location	IP : 192.168.127.253 Serial No : TAFJD104056 ABC-02-USB-T : Device N	M 1 Fi ot Present	AC Address : irmware Version :	00-90-E8-5C-4E- V5.1 build 16072	-A3 = 215 =	STATE PWR1 PWR2	<ul> <li>MSTR/HEAD</li> <li>CPLR/TAIL</li> <li>FAULT</li> </ul>
Home  System VLAN Port Redundant Protocol	Protocol	otocol	V2 •	]			
Multicast QoS Security DHCP SNMP	Active Protocol Ring 1 Ring 2	Role	Vone Turbo Ring S  	Status	1st Port Status 	2nd P 	fort Status
Industrial Protocol Diagnostics Monitoring	Ring Coupling Settings	Role 	Primary Port	t Status	Backup Port St	tatus	
Best viewed with IE 7 babve at resolution 1024 y	Ring 1     Set as Master     Redundant Ports     Ring Coupling     Enable	1st Por 2nd Po	t <u>G3 ▼</u> rt <u>G4 ▼</u>	Ring Set a Redunda	2 is Master nt Ports	1st Port 2nd Port	G1 T G2 T



Settings

<ul> <li>Ring 1</li> <li>Set as Master</li> <li>Redundant Ports</li> </ul>	1st Port 2nd Port	G3 ▼ G4 ▼	<ul><li>Ring 2</li><li>Set as Master</li><li>Redundant Ports</li></ul>	1st Port 2nd Port	G1 ▼ G2 ▼
Ring Coupling					
Enable					
Coupling Mode	Dual I	Homing	<b>v</b>		
Primary Port	1 *				
Backup Port	2 🔻				
					Apply

#### 三、Turbo Ring 测试

将所有交换机按设置的端口连接成环网,电脑连接任一台交换机的任一端口, 打开 cmd。Ping 其他交换机的 IP 地址,可以 ping 通,证明环网设置成功。



留理员: C:\Windows\system32\cmd.exe     □ □ Σ	3
Microsoft Windows [版本 6.1.7601] 版权所有 <c> 2009 Microsoft Corporation。保留所有权利。</c>	* 
C:\Users\Ashley_Yao>ping 192.168.127.253	
正在 Ping 192.168.127.253 具有 32 字节的数据: 来自 192.168.127.253 的回复: 字节=32 时间=1ms TTL=64 来自 192.168.127.253 的回复: 字节=32 时间<1ms TTL=64 来自 192.168.127.253 的回复: 字节=32 时间<1ms TTL=64 来自 192.168.127.253 的回复: 字节=32 时间<1ms TTL=64	
192.168.127.253 的 Ping 统计信息: 数据包: 已发送 = 4, 已接收 = 4, 丢失 = 0 <0% 丢失>, 往返行程的估计时间<以毫秒为单位>: 最短 = 0ms, 最长 = 1ms, 平均 = 0ms	
C:Wsers\Ashley_Yao>	
半:	-

(完)