Course: Digital Drift System **Module 1.4:** Config Tool





The Digital Drift/DigitalBridge Config tool is used for programming and troubleshooting.

Java runtime (>= 8)

Oracle runtime preferred, but it also works with OpenJDK

If OpenJDK, a small hack is required to associate JAR files with OpenJDK



Version 8, or



Installation – Operating System (OS)

Target OS = Windows (due to a native library)

- Install Winpcap 4.1.3 to gain access to raw sockets
- Must be run with Local Administrator rights
- Requires permission to write to the 'temp' directory (sometimes blocked by group policy) Alternate OS = Linux
- Must be run as root

NOTE: On-board RJ45 Ethernet is the preferred method, the tool does not work across a Wi-Fi interface and some issues have been reported with USB to Ethernet adaptors.





Installation – Config tool JAR file

Copy the config tool's JAR file to a convenient directory

- Current version is 1.1.0
 - Available in RFI and Strata branded editions:
 - DigitalDriftCoaxConfigurator-1.1.0.jar
 - DigitalBRIDGECoaxConfigurator-1.1.0.jar





Optional - Create a shortcut on the desktop.

DigitalDriftConfigTool-0.1.2-Si	VAPSHOT. iar	10.397 KB Executable	Jar File	6/11/2017 2:48 PM
	Open 7-Zip Open With	Þ		
	R TortoiseGit	•		
	 Extract files Extract Here Extract to DigitalDriftConfigTc 	ool-0.1.2-SNAPSHOT\		
	Send To	•	🚺 Co	mpressed (zipped) Folder
	Cut Copy		-	sktop (create shortcut) il Recipient
	Create Shortcut		🙆 Му	Documents
	Delete Rename		- Wi	nSCP (for upload)
	Properties			



Running the Config tool

Connect the PC's RJ45 Ethernet port to the network that is used to manage the DD devices (or directly into a DD device)

Run from the Config tool from the short cut if you created one

If not run the file form the command prompt:

java -jar DigitalDriftCoaxConfigurator-1.1.0.jar

Or for the Strata branded edition:

java -jar DigitalBRIDGECoaxConfigurator-1.1.0.jar





Running the Config tool - Discovery

When the tool starts it sends out multicast discovery packets to find DD devices

It is important to note devices only respond if the discovery request packet is received on its **ETHERNET** interface, not its COAX interface





Ports Overview



Discovered Devices – Single Device Response

If only 1 device responds to the Config Tool's discovery request:

Coax Configurator iscover Network Options Help						– 🗆 X
Coax segment 3 nodes	Domain Name: Domain ID:	DigitalDrift 13 Master Node:	BC:22:FB:C3:00:48	8		
C:22:FB:C3:00:48 MAC: BC:22:FB:C3:00:48 Type: REPEATER Acting as: DOMAIN_MASTER IPv4 address: 0.0.0 <i>CMP supported</i> C:22:FB:C1:01:B7	Re-discover Net	nnections HW Config IPv4 Co			BC:22	2:FB:C3:00:48
MAC: BC:22:FB:C1:01:B7 Type: QUADPORT	Device ID:	1	Node Type:	DOMAIN_MASTER		
Click here to get info	Domain Name:	DigitalDrift				
	Domain ID (DOD)	: 13	Profile:	COAX 200MHz		
C:22:FB:C1:01:C2		Rx Throughput and	Errors are calculated	every time that you pre	ss Refresh.	
MAC: BC:22:FB:C1:01:C2 Type: QUADPORT	Device ID	MAC Address	TX PHY	RX PHY	Rx Throughput	Rx Errors
Click here to get info	2	BC:22:FB:C1:01:B7	1961 Mbps	1962 Mbps	-	-
	3	BC:22:FB:C1:01:C2	996 Mbps	996 Mbps	-	-
						Activate
						Activate Go to Sett



Discovered Devices – Multiple Device Response

If more than 1 device responds to the Config Tool's discovery request:

• A dialog box is displayed that requires one of the devices to be selected.





Discovery – Basic system – PO >QP

Only EoC for A will be visible





Discovery - Basic System QP>PO

Only EoC for B will be visible





No EoC will be visible





Discovery – Basic system – PO, QP and RP

Only EoC for A and D will be visible





Discovery – Full Mine Network



Discovery – Combined Network

Only EoC for A and B will be visible LAE, QP2, RP2 does not forward discovery message over coax





Only EoC for B will be visible





	Coax Configurator				- 🗆 X
	Discover Options Help				
	Coax segment	Domain Name:			
	0 nodes	Domain ID:	Master Node:		
					C4-20-20-C2-00-40
		Re-discover Network	~ ~		C4:28:2D:C2:00:48
		Basic Coofig Coax Connection	ons HW Config IPv4 Config Ethernet S	NR & PSD IPv6 Config Notche	s QoS Config VLAN Mult
		Node basic configu	iration		
🚸 Coax Configurator		Node Name:	Johan Test Portal	Apply	
Discover Network Options Help		Node Role:	Automatic (now DOMAIN_MASTER)	Change	
🔍 Re-discover Network	Domain Name: DigitalDrift	Domain Name:	DigitalDrift	Apply	
× Quit	Dominin ID: 13 Master				
		Device 1			
Johan Test Portal MAC: C4:28:2D:C2:00:48	🔍 Re-discover Network 🛛 📿 Refresi		Re-discovering nodes. Please wait		
Type: PORTAL	Basic Config Coax Connections HW Config				
Acting as: DOMAIN_MASTER IPv4 address: 10.1.5.2		Coax st		Cancel Change	Profile
SCP only (no LCMP)	Node basic configuration	Firmware:	ccm210_rfi_auto_role - ver: 2.8	Upgrad	
C4:28:2D:C1:00:65	Note basic configuration			Opgrau	2
		Factory Profile Id:	1		
		Click here to restore th	e factory default configuration:		
				Uptime:	
		Factory Reset		0 days, 0h 4m 51s	
	Version 1.1.0		Т	ip: Use the Refresh button to updat	te the information of the selected node.



Viewing Status

By default the tool starts in read-only mode, allowing status to be viewed

Node summary info

- On the left side is a summary of each node on the coax segment currently being viewed
- When a node is first selected, all of its details are retrieved, but not refreshed again

Coax segment 2 nodes	Domain Name: Di Domain ID: 13	gitalDrift 3 Master Node: C4:28:2D:C2:00:48			
Ohan Test Portal MAC: C4:28:2D:C2:00:48 Type: PORTAL Acting as: DOMAIN_MASTER IPV4 address: 10.1.5.2 SCP only (no LCMP)	Basic Config Coax Connection	Refresh CReboot		C4:28:21	D:C2:00:4
C4:28:2D:C1:00:65 MAC: C4:28:2D:C1:00:65 Type: QUADPORT Click here to get info	Node basic configu Node Name: Node Role: Domain Name:	Johan Test Portal Automatic (now DOMAIN_MASTER) DigitalDrift	Apply Change Apply		
	Device Type:	Portal			
	Coax status: Firmware: Factory Profile Id:	COAX 100MHz - Connected 749 Mbps ccm210_rfi_auto_role - ver: 2.8		Change Profile Upgrade	
	Click here to restore th Factory Reset	e factory default configuration:	Uptime: O days, 20h 8	3m 50s]



Viewing Status - Refresh

 Coax Configurator Discover Network Options Help Coax segment 2 nodes 	Domain Name: Dig Domain ID: 13	iitalDrift Master Node: C4:28:2D:C2	Refreshes al for the node selected in th the let	currently ne list on	- 🗆 X
Johan Test Portal MAC: C4:28:2D:C2:00:48 Type: PORTAL Acting as: DOMAIN_MASTER IPv4 address: 10.1.5.2 SCP only (no LCMP)	Re-discover Network Basic Config Coax Connectio			C4:	28:2D:C2:00:48
C4:28:2D:C1:00:65	Node basic configu	ration			
MAC: C4:28:2D:C1:00:65 Type: QUADPORT	Node Name:	Johan Test Portal	Apply		
Click here to get info	Node Role:	Automatic (now DOMAIN_MASTER) Change	£	
	Domain Name:	DigitalDrift	Apply		
	Device Type:	Portal			
	Coax status:	COAX 100MHz - Connected 749 Mb	ops	Change Profile	e
	Firmware:	ccm210_rfi_auto_role - ver: 2.8		Upgrade	
:	Factory Profile Id:	1			
	Click here to restore the Factory Reset	e factory default configuration:	Uptime: 0 days, 20h 8	3m 50s	
Version 1.1.0			Tip: Use the Refresh bu	tton to update the i	nformation of the selected node.



Viewing Status – Basic Config





Viewing Status – Coax Connections





Viewing Status – HW Config

This view only screen is useful for advanced firmware upgrades

		—	
Network Options Help C segment Domain Name: Digit des Domain ID: 13	talDrift Master Node: C4:28:2D:C2:00:48		
Test Portal 1:28:2D:C2:00:48 ORTAL s: DOMAIN_MASTER dress: 10.1.5.2 (no LCMP) HW Information MAC Address: C: HW Product: C: HW Revision: 1. ASIC: 3: Revision: 11 Chipset:	CM210 C	C4:28:2D:C2	2:00:48



Viewing Status – IPv4 Config

Coax Configurator		X
	ess assigned DigitalDrift EOC interface 13 Master Node: C4:28:	2D:C2:00:48
Johan Test Portal MAC: C4:28:2D:C2:00:48 Type: PORTAL Acting as: DOMAIN_MASTER IPv4 address: 10.1.5.2 SCP only (no LCMP) C4:28:2D:C1:00:65 MAC: C4:28:2D:C1:00:65 Type: QUADPORT Acting as: END_POINT IPv4 address: 10.1.5.3 SCP only (no LCMP)	Re-discover Network Refresh Refresh Reboot Basic Config Coax Connections HW Config IPv4 Config IPv4 Configuration Ive Ive Ive Type of IP configuration: Fixed Ive Ive IP Address: 10.1.5.2 Subnet Default Gateway: 0.0.0.0 Ive DNS IP Address: 0.0.0.0 Subnet Additional IP addresses: 0.0.0.0 Subnet	Mask: 255.255.255.0
	Additonal IP 2: 0.0.0.0 Subnet Update & Reboot Check IPv4 Connectivity Click to	Mask: 0.0.0.0
Version 1.1.0		Tip: Use the Refresh button to update the information of the selected node.



Changing Device Config

From the menu bar change the Configuration password to "admin"

N.B. This only applies to the current session of the Config Tool. If it is closed and re-opened, it reverts to read-only mode





Changing Device Config – Basic Config

 Coax Configurator Discover Network Options Help 		Name: super handy wh troubleshooting. Either location, or a site asse	use			×	
Coax segment 2 nodes	Domain Name: Digita Domain ID: 13	number, which is printed large format on the front of					1
Johan Test Portal MAC: C4:28:2D:C2:00:48 Type: PORTAL Acting as: DOMAIN_MASTER IPV4 address: 10.1.5.2	Re-discover Network Basic Config Coax Connections	device		QPs 'EndPc	o not cha s should pint', all o	be others	
SCP only (no LCMP) C4:28:2D:C1:00:65	Node basic configura	tion		snould	be 'Auto	matic	
MAC: C4:28:2D:C1:00:65 Type: QUADPORT Click here to get info	Node Name:	Johan Test Portal	Apply				
[]	Node Role: Domain Name:	Automatic (now DOMAIN_MASTER)	Change Apply				
Coax Profile: change to 100 MHz profile if using QPv1 on leaky feeder	Device Type:	Portal	Αμμη		not c	in Nam hange - natch a	- this
:	Coax status:	COAX 100MHz - Connected 749 Mbps	Char	nge Profile		es for th	
;	Firmware:	ccm210_rfi_auto_role - ver: 2.8	Upg	rade	link	up on c	coax
Current FW version, see next section for more information	Factory Profile Id: Click here to restore the factory Reset	1 actory default configuration:	Uptime: 0 days, 20h 8m 50s				
Version 1.1.0		Tip: Use	the Refresh button to up	odate the informa	ation of the selec	ted node.	



Changing Device Config – IPv4 Config

Coax Configurator			- 🗆 X
	ess assigned DigitalDrift EoC interface 13 Master	Node: C4:28:2D:C2:00:48	
Johan Test Portal MAC: C4:28:2D:C2:00:48 Type: PORTAL Acting as: DOMAIN_MASTER IPv4 address: 10.1.5.2 SCP only (no LCMP) C4:28:2D:C1:00:65 MAC: C4:28:2D:C1:00:65 Type: QUADPORT Acting as: END_POINT	Re-discover Network Refresh Basic Config Coax Connections HW Config IPv4 Configuration Type of IP configuration: Fixed	IPv4 Config	C4:28:2D:C2:00:48
IPv4 address: 10.1.5.3 SCP only (no LCMP)	IP Address: 10.1.5.2 Default Gateway: 0.0.0.0 DNS IP Address: 0.0.0.0	Subnet Mask: 255.255.255	5.0
	Additional IP addresses:		
	Additonal IP 1: 0.0.0.0	Subnet Mask: 0.0.0.0	
	Additonal IP 2: 0.0.0.0	Subnet Mask: 0.0.0.0	
	Update & Reboot		
	Check IPv4 Connectivity	Click to check IP connectivity from th	nis computer.
Version 1.1.0		Tip: Use the Refre	sh button to update the information of the selected node.



Firmware Upgrade

Coax Configurator				_		×
Discover Network Options Help Coax segment 2 nodes	Domain Name: Di Domain ID: 13	gitalDrift 3 Master Node: C4:28:2D:C	2:00:48			
Johan Test Portal MAC: C4:28:2D:C2:00:48 Type: PORTAL Acting as: DOMAIN_MASTER IPv4 address: 10.1.5.2	Re-discover Network Basic Config Coax Connection			C4:28:2	D:C2:0	0:48
	Node basic configu Node Name: Node Role: Domain Name: Device Type: Coax status: Firmware: Factory Profile Id:	Johan Test Portal Automatic (now DOMAIN_MASTE DigitalDrift Portal	the 'Factory Profile Id' on the Basic Config tab is zero - contact RFI tech support for the dvanced procedure	e Profile		
	Click here to restore th Factory Reset	e factory default configuration:	Uptime: 0 days, 20h 8m 50s			
Version 1.1.0]		Tip: Use the Refresh button to up	date the information	n of the select	ted node.



Firmware Upgrade – Cont.

 Coax Configurator Discover Network Options Help 			
Coax segment 2 nodes	Domain Name: DigitalDrift Domain ID: 13 Master Node: C4	:28:2D:C2:00:48	
Johan Test Portal MAC: C4:28:2D:C2:00:48 Type: PORTAL Acting as: DOMAIN_MASTER IPv4 address: 10.1.5.2	Re-discover Network Refresh U Ret Basic Config Coax Connections HW Config IPv4 Config		Device Type
SCP only (no LCMP) C4:28:2D:C1:00:65 MAC: C4:28:2D:C1:00:65 Type: QUADPORT Click here to get info	Node basic configuration Node Name: Johan Test Portal Node Role: Automatic (now DOMAIN Domain Name: DigitalDrift Device Type: Portal	Apply Apply Apply Apply	PO v1 (Wave-2)ccm220_upgrade@ <version>.binQP v1 (Wave-2)ccm220_upgrade@<version>.binRP v1 (Wave-2)ccm220_upgrade@<version>.binQPv2ccm320a_upgrade@<version>.binRPv2 ('right side'ccm320a_upgrade@<version>.binLAE ('right side')ccm320a_upgrade@<version>.binRPv2 ('left side')ccm320a_upgrade@<version>.binLAE ('left side')ccm320b_upgrade@<version>.bin</version></version></version></version></version></version></version></version>
	Coax status: COAX 100MHz - Connect Firmware: ccm210_rfi_auto_role - v Factory Profile Id: 1 Click here to restore the factory default configuration Factory Reset If the 'Factory Profile Id' is not zero	n: Coax Configurator - OSUP Upgrade OSUP Upgrade node C Current firmware: ccm210_ff_auto_role - ver: 2	2.8
Version 1.1.0		Tip: U: Start Upgrade	Cancel



Batch operations

Coax Configurator		Operations ca applied to all n on the coax sec currently bei	odes gment	- 0	×
Discover Network Options Help	1	viewed			
Coax Refresh all nodes	nain Name:				
2 noc Reboot all nodes	hain ID:	13 Master Nod	le: C4:28:2D:C2:00	0:48	
Johan Factory Reset all nodes	J Jiscover Netw	vork 🦪 Refresh	C Reboot	C4:28:2D:C2	2:00:48
MAC: C4 Type: P(Change Domain Name in all nodes Change Profile in all nodes	id Coay Coor	nections HW Config IPv	-		
Acting as Change Profile in all houses IPv4 adc Upgrade multiple nodes	B COBX CON		4 coning		
SCP only	J	ommend to only			
MAC: C4:28:20:C1:00:65	touch	these if you are			
Acting as: END POINT		advanced user	31	Apply	
IPv4 address: 10.1.5.3 No	ode Ro <mark>le:</mark>	Automatic (now	DOMAIN_MASTER)	Change	
	omain Name:	DigitalDrift		Apply	
	evice Type: Dax status: mware:	Portal COAX 100MHz - ccm210_rfl_auto	Connected 770 Mbps o_role - ver: 2.8	s Change Profile Upgrade	
Fa	ctory Profile Id	1: 1			
Cli	ck here to restor	re the factory default con	figuration:	Uptime:	
	Factory Rese	t		0 days, 0h 0m 17s	
Version 1.1.0			-	Tip: Use the Refresh button to update the information of the	selected node.



Expert Mode – For advanced trouble shooting

Browse to the appropriate file location in a command prompt window and run:

- java -jar DigitalDriftCoaxConfigurator-1.1.0.jar expert OR
- java -jar DigitalBRIDGECoaxConfigurator-1.1.0.jar expert





Expert Mode – For advanced trouble shooting

Useful for troubleshooting communications problems between nodes on a coax segment

Requires the PC running the Config Tool to have IPv4 connectivity to each node under investigation

To test IP connectivity to each node under investigation, use the 'Check IPv4 connectivity' button on the IPv4 Config tab for each node

Johan Test Portal	🔍 Re-discover Network 🎜 Refresh 🔱 Reboot	C4:28:2D:C2:00:4		
MAC: C4:28:2D:C2:00:48 Type: PORTAL Acting as: DOMAIN_MASTER IPV4 address: 10.1.5.2 SCP only (no LCMP) C4:28:2D:C1:00:65 Type: QUADPORT Click here to get info	Basic Config Coax Connections HW Config IPv4 Config Ethernet SNR Node Name: Johan Test Portal Node Role: Automatic (now DOMAIN_MASTER) Domain Name: DigitalDrift SNR_PROBE test: • • Performs a live SNR between two node one receiving) • N.B. It is not symmetrical (due to difference receivers) so run it in both directions • Best case = > 45 dB SNR across as wirelatively flat NOISE • • Measures the noise floor at the test's 'F • Ideally less than 145 dBm/Hz across the	Apply Change Apply es (one trans ent noise leve ide a band as	mitting and els at the	AN Mult}





Accessing the Ethernet Switch in the Managed Quadport

rfi.com.a u



The default access details for the switch is: IP: 10.1.1.1 Username: admin Password: blank (no password)

The menu of most use will be:

- VLAN
- PoE
- SNMP
- Security menu (for TACACS, etc)
- If the IP of the switch is unknow there are two ways to access it:
- "SwitchConfigurator" is a software package which can discover the switch as long as its management interface is on the port you are plugged into and it is untagged
- Second way is to:
 - power it off
 - plug a patch lead between port 1 and 2.
 - power it on
 - wait until the switch boots up it will cause a loopback obviously. When you se it flashing crazy unplug the patch lead
 - The switch is now at defaults until you power cycle it
 - This means you can plug into any of the four ports and access 10.1.1.1
 - You can now reconfigure it, but you must Save to flash before power cycling otherwise it will boot up with the previously saved config





The default IP address for the embedded switch in the QP is 10.1.1.1

Green Ethernet	Port State Overview										
 Ports Configuration State Traffic Overview QoS Statistics QCL Status Detailed Statistics VeriPHY SFP 	Fast Ethernet PoE Managed Switch										
Security Aggregation Redundancy IPMC Profile MVR IPMC IPMC LLDP POE MAC Table VLAN Translation	FIBER Fault										
VLANs Private VLANs GVRP VCL QoS Mirroring UPnP PTP (IEEE1588)											

System Green Ethernet	Powe	Power Over Ethernet Configuration											
Ports Configuration	Rese	ved Pow	er det	ermined	l by	Class Allocation LLDP-MED							
 State Traffic Overview 	Powe	r Manage	ment	Mode		Actual Consumption	Re	eserved Power					
 QoS Statistics QCL Status Detailed Statistics 		ower Su		- 00		on							
VeriPHYSFP	Prim	ary Powe	er Su										
Security Aggregation	PoE P	ort Confi	igurat		0								
Redundancy IPMC Profile	Port	PoE M	odo	Prior	it.	Maximum Power							
MVR	ron *		vue	<>	TLY T	Maximum Power	30						
IPMC	1	PoE+	•	Low	•		30						
	- ·												
PoE Configuration	2	PoE+	•	Low	•		30						
PoE Check	3	PoE+	•	Low	۲		30						
 PoE Schedule Status 	4	PoE+	•	Low	•		30						
MAC Table													
VLAN Translation	Save	Reset											
VLANs Private VLANs													
GVRP													
VCL													
QoS													
Mirroring													
UPnP PTP (IEEE1588)													
L2CP													
Diagnostics													



- Ports 1-4 is the QP ports, port 5 is the trunk port it is important to make your trunk port (Port 5) a trunk port with the same settings as the trunk port on your ethernet switch connecting to the Portal
- Allowed access VLANs list all VLANs you want on the switch, comma separated
- Select trunk or access,
 - If selecting Access, all you need to do next is select the appropriate Port VLAN
 - If selecting Trunk, the "Port VLAN" column should be the VLAN that is to be 'native'
- In egress tagging, ensure that untag port vlan is selected
- Lastly, in allowed VLANs, list the VLANs to be allowed on the trunk, including the native VLAN number

Port VLAN Configuration	Globa	Iobal VLAN Configuration													
Port Mode Port Port Type Ingress Egress Allowed Forbidde * > 1 > *	Ether	type for Cus	tom S-por	ts 88A8					:::*::						
• O •			Port		/pe						Forbidde				
2 Access v 1 C-Port v ✓ Tagged and Untagged v Untag Port VLAN v 1 1 3 Access v 1 C-Port v ✓ Tagged and Untagged v Untag Port VLAN v 1 4 Access v 1 C-Port v ✓ Tagged and Untagged v Untag Port VLAN v 1 5 Access v 1 C-Port v ✓ Tagged and Untagged v Untag Port VLAN v 1 6 Access v 1 C-Port v ✓ Tagged and Untagged v Untag Port VLAN v 1 5 Access v 1 C-Port v ✓ Tagged and Untagged v Untag Port VLAN v 1 6 Access v 1 C-Port v ✓ Tagged and Untagged v Untag Port VLAN v 1 Save Reset	*	<> v		\diamond	•						VEANS				
3 Access • 1 C-Port • Imaged and Untagged • Untag Port VLAN • 1 4 Access • 1 C-Port • Imaged and Untagged • Untag Port VLAN • 1 5 Access • 1 C-Port • Imaged and Untagged • Untag Port VLAN • 1 6 Access • 1 C-Port • Imaged and Untagged • Untag Port VLAN • 1 5 Save Reset Imaged and Untagged • Untag Port VLAN • 1	1	Access •	1	C-Port	٣		Tagged and Untagged v	Untag Port VLAN	1						
4 Access v 1 C-Port v ✓ Tagged and Untagged v Untag Port VLAN v 1 5 Access v 1 C-Port v ✓ Tagged and Untagged v Untag Port VLAN v 1 6 Access v 1 C-Port v ✓ Tagged and Untagged v Untag Port VLAN v 1 8 Access v 1 C-Port v ✓ Tagged and Untagged v Untag Port VLAN v 1 6 Access v 1 C-Port v ✓ Tagged and Untagged v Untag Port VLAN v 1 8ave Reset Image I	2	Access •	1	C-Port	٣	1	Tagged and Untagged *	Untag Port VLAN	1						
5 Access • 1 C-Port • Image: Constraint of the second secon	- 3	Access •	1	C-Port	٣	1	Tagged and Untagged •	Untag Port VLAN	1						
6 Access v 1 C-Port v VLAN v 1	4	Access 🔻	1	C-Port	٣	1	Tagged and Untagged v	Untag Port VLAN	1						
Save Reset	- 5	Access •	1	C-Port	٣	v	Tagged and Untagged v	Untag Port VLAN	1						
	6	Access •	1	C-Port	٣	P	Tagged and Untagged v	Untag Port VLAN	1						
	Save	Reset													



Make sure you go to the maintenance tab at the bottom and save the start up configuration, otherwise all your settings will be lost when the switch restarts

	Industrial 4X 1	10/100Base T((X) + 2X SFP with	ı 4 High Power PoE	managed Switch							
QCL Status Detailed Statistics VenPHY SFP	Save Running Configuration to startup-config											
Security	Please note: The genera			consuming, depending on		ult configuration.						
Aggregation Redundancy IPMC Profile MVR	Save Configuration											
PIPMC												
LLDP PoE Configuration PoE Check PoE Schedule Status												
MAC Table												
VLAN Translation VLANs Configuration Membership Ports												
Private VLANs GVRP VCL QoS Mirroring												
UPnP PTP (IEEE1588) L2CP												
Diagnostics												
 Maintenance Reboot Factory Defaults Software Configuration 												
 Save startup-config Backup Restore Activate Delete 	•											

