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		📴 De	sktop (create shortcut)
	Create Shortcut		My	Documents
	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	twork CRefresh U nnections HW Config IPv4 Co	Reboot onfig		BC:22	2:FB:C3:00:48
MAC: BC:22:FB:C1:01:B7 Type: OUADPORT	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			- 🗆 ×
	Discover Options Help			
	Coax segment	Domain Name:		
	0 nodes	Domain ID:	Master Node:	
		Re-discover Network	CRefresh 😃 Reboot	C4:28:2D:C2:00:48
		Basic Config Coax Connection	s HW Config IPv4 Config Ethernet SN	R & PSD IPv6 Config Notches QoS Config VLAN Mult
		Node basic configur	ation	
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:	DioitalDrift	Apply
× Quit	Domain ID: 13 Master			
Johan Test Portal	🔍 Re-discover Network 🛛 🔀 Refres	Device 1	Re-discovering nodes. Please wait	
Type: PORTAL	Basic Config Coax Connections HW Config			
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	Upgrade
C4.28.2D.C1.00.03		Factory Profile Id:	1	
		Click here to restore the	factory default configuration:	Uptime:
		Factory Reset]	0 days, 0h 4m 51s
	Version 1.1.0		Tip	Use the Refresh button to update 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)	Re-discover Network 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 of selected in th the let	l details currently ne list on ft	- 🗆 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	Refresh Reboot		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	ps	Change Profile	9
	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	Im 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

international Name: DigitalDirft: bodes Domain Name: DigitalDirft: bodes Domain ID: 13 Master Node: C4:28:2D:C2:00:48 c42:82:DD:C2:00:48: C Re-discover Network Certical C4:28:2D:C2:00:48 c42:82:DD:C1:00:65: control FWC Config IPV4 Config Certical c42:82:DD:C1:00:65: control FW Information FMC Address: C4:28:2D:C2:00:48 regarder IA:28:2D:C2:00:48 Device Name: CM210 Description: Coaxial Comms Module regarder HW Revision: 1.0 Haufacturer: RF1 Technology Solutions ASIC: 3142 Revision: 15 Chipset: Ferrix Serial Number: 000000000000000000000000000000000000	codes Domain Hame: DigtaDrft: 2 nodes Domain Hame: DigtaDrft: Codes Domain Hame: DigtaDrft: Difter Domain Hame: Di	Coax Configurator				_	
An Test Portal (-4:28:2D):C:200:48 (-2:28:2D):C:200:48 (-2:28:2D):C:1:00:55 (-4:28:2D):C:2:00:48 (-4:28:2D):C:2:00:48 <	Ana Test Portal CC: C2: 22: 20: 23: 00: 43: 00: 40: 00: 10: 00: 00: 00: 00: 00: 00: 00: 0	over Network Options Help oax segment 2 nodes	Domain Name: Domain ID:	DigitalDrift 13 Master Node:	C4:28:2D:C2:00:48		
Flash Upgrade	OSUP Upgrade	2 Hodes bhan Test Portal IAC: (42:8:2D:C2:00:48 ype: PORTAL cting as: DOMAIN_MASTER 24 address: 10.1.5.2 2P only (no LCMP) 42:28:2D:C1:00:65 IAC: (42:8:2D:C1:00:65 YAC: (42:8:2D:C1:00:53 Ype: QUADPORT cting as: END_POINT 2V4 address: 10.1.5.3 2P only (no LCMP)	Re-discover Network Basic Config Coax Connect HW Information MAC Address: HW Product: HW Revision: ASIC: Revision: Chipset: Serial Number:	IS Paster Hode: rk Paster Hode: tions HW Config IPv4 Cor C4:28:2D:C2:00:48 CCM210 1_0 3142 16 Fenix 000000000000000000000000000000000000	Reboot Ifig Device Name: Description: Manufacturer:	CCM210 Coaxial Comms Module RFI Technology Solutions	:2D:C2:00:48



Viewing Status – IPv4 Config

Coax Configurator							×
Coax segment 2 nodes	ess assigned Dig EoC interface 13	italDrift Master Node	e: C4:28:2D:C2:00:	48			
2 nodes 10 tills E 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: IND_POINT IPv4 address: 10.1.5.3 SCP only (no LCMP)	Re-discover Network Basic Config Coax Connection IPv4 Configuration Type of IP configuration IP Address: Default Gateway: DNS IP Address: Additional IP addresses: Additional IP 1: Additonal IP 1: Update & Reboot	Master Rod Refresh (Image: Fixed (Image: Fi	Config Keboot Config Subnet Mask: Subnet Mask: Subnet Mask:	43 255.255.255.0 0.0.0.0 0.0.0.0	C4:28:20):C2:0	D:48
Version 1.1.0	Check IPv4 Connecti	vity	Click to check IP co	nnectivity from this computer.	pdate the information	of the selecte	ed 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 et			×	
Coax segment 2 nodes	Domain Name: Digita Domain ID: 13	number, which is printed	d in				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		Role: de QPs 'EndPc	o not cha s should pint', all o	ange - be others	
C4:28:2D:C1:00:65	Node basic configura	tion		snould		matic	
MAC: C4:28:2D:C1:00:65 Type: QUADPORT Click here to get info	Node Name:	Johan Test Portal	Apply				
[]	Node Role:	Automatic (now DOMAIN_MASTER)	Change				
Coax Profile: change to 100 MHz profile if using QPv1 on leaky feeder	Device Type:	Portal	Αμμη		Doma not cl	in Nam hange	ne: do - this
:	Coax status:	COAX 100MHz - Connected 749 Mbps	Char	nge Profile	device	s for th	nem to
;	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 10: Click here to restore the fr Factory Reset	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
Coax segment 2 nodes Discover Network Options Hole IP add to this	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 <i>SCP only (no LCMP)</i> 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	Preboot 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	Refresh CReboot		C4:28:2	D:C2:0	0:48
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 configu Node Name: Node Role: Domain Name: Device Type: Coax status: Firmware: Factory Profile Id:	Johan Test Portal Automatic (now DOMAIN_MASTE DigitalDrift Portal COAX 100MHz - Connected 7 ccm210_rfi_auto_role - ver: 2	R) Change 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	ooot C4:28:21	Device Type
SCP only (na LCNP) 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	red 749 Mbps Change Profile rer: 2.8 Upgrade Coax Configurator - OSUP Upgrade Coax Configurator - OSUP Upgrade n: OSUP Upgrade node C Current firmware: ccm210_rfl_auto_role - ver: 2 New firmware: Browse Look for the new firmware file and press Start Upgrade	× :4:28:2D:C2:00:48
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	n be 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 Charge Departing Margarian Margarian	J Jiscover Netw	vork 🦪 Refresh	C Reboot	C4:28:2D:C2	2:00:48
MAC: C4 Type: P(Change Domain Name in all nodes	id Coay Coor	ections HW Config TPv	4 Config		
Acting as IPv4 add Ungrade multiple podes	B COBX CON		4 comig		
SCP only Traffic Monitor	le bi Reco	ommend to only			
MAC: C4:28:2D:C1:00:65	touch	these if you are			
Type: QUADPORT NO Acting as: END POINT	ode Nar an a	advanced user	31	Apply	
IPv4 address: 10.1.5.3 No	ode Ro <mark>le:</mark>	Automatic (now	DOMAIN_MASTER)	Change	
Der Unif (No Lerw)	omain Name:	DigitalDrift		Apply	
De CC Fir	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	restore the factory default configuration:		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	C4:28:20	C4:28:2D:C2:00:4		
MAC: C4:22:2D:C2:00:46 Type: PORTAL Acting as: DOMAIN_MASTER IPv4 address: 10.1.5.2 SCP only (no.1CMP) C4:28:2D:C1:00:65 MAC: C4:28:2D:C1:00:65 Type: QUADPORT Click here to get info	Basic Config Coax Connections HW Config IPv4 Config Ethernet SNR & P Node basic configuration Node Name: Johan Test Portal Node Name: Johan Test Portal Node Role: Automatic (now DOMAIN_MASTER) Domain Name: DigitalDrift SNR_PROBE test: Performs a live SNR between two nodes of one receiving) N.B. It is not symmetrical (due to different receivers) so run it in both directions Best case = > 45 dB SNR across as wide relatively flat NOISE Measures the noise floor at the test's 'RX Ideally less than 145 dBm/Hz across the key	PSD IPv6 Config Notches QoS Config Apply Change Apply (one transmitting and t noise levels at the e a band as possible, Node' band	VLAN 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 (IFFE1588) 											

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	221 ° C221				
 QoS Statistics QCL Status Detailed Statistics 	PoE P	ower Su	oply (Configu	urati	on							
 VeriPHY SFP 	Prim	ary Powe	er Su	pply [V	1								
Security Aggregation	PoE P	ort Confi	igurat	8 tion	0								
Redundancy IPMC Profile	Port	BoE M	odo	Prior	it.	Maximum Bowor							
MVR	ron *		oue •		TLY T	Maximum Power	30						
IPMC	1	DoE+	•	Low	-		20						
		FULT	•	LOW	•		30						
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 Drivete VI AND													
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

Allowed Access VLANs 1 Ethertype for Custom S-ports 88A8 Port VLAN Configuration Port Port VLAN Port Type Ingress Filtering Acceptance Tagging Allowed VLANs Forbidde VLANs * • • • • • • 1 1 •	Globa	lobal VLAN Configuration												
Port Mode Port Port Port Filtering Acceptance Egress Tagging Allowed VLANs Forbidd * © • 1 • 0 • 0 • 0 • 0 • 0 1	Allow Ethern	ed Access V ype for Cus LAN Conf	/LANs .tom S-por iquratior	1 88A8										
* O + 1 O + 1 O + 1 O + 1 O + 1 1 Access + 1 C-Port + 1 Tagged and Untagged + Untag Port VLAN + 1 1 2 Access + 1 C-Port + 1 Tagged and Untagged + Untag Port VLAN + 1 1 3 Access + 1 C-Port + 1 Tagged and Untagged + Untag Port VLAN + 1 1 4 Access + 1 C-Port + 1 Tagged and Untagged + Untag Port VLAN + 1 1 5 Access + 1 C-Port + 1 Tagged and Untagged + Untag Port VLAN + 1 1 6 Access + 1 C-Port + 1 Tagged and Untagged + Untag Port VLAN + 1 1 6 Access + 1 C-Port + 1 Tagged and Untagged + Untag Port VLAN + 1 1 5 Access + 1 C-Port + 1 Tagged and Untagged + Untag Port VLAN + 1 1 6 Access + 1 C-Port + 1 Tagged and Untagged + Untag Port VLAN + 1 1 5 Save Reset I I I	Port	Mode	Port	Port Ty	/pe	Ingress Filtering	Ingress Acceptance	Egress	All	owed	Forbidde			
1 Access • 1 C-Port • Ø Tagged and Untagged • Untag Port VLAN • 1 2 Access • 1 C-Port • Ø Tagged and Untagged • Untag Port VLAN • 1 3 Access • 1 C-Port • Ø Tagged and Untagged • Untag Port VLAN • 1 4 Access • 1 C-Port • Ø Tagged and Untagged • Untag Port VLAN • 1 5 Access • 1 C-Port • Ø Tagged and Untagged • Untag Port VLAN • 1 6 Access • 1 C-Port • Ø Tagged and Untagged • Untag Port VLAN • 1 5 Access • 1 C-Port • Ø Tagged and Untagged • Untag Port VLAN • 1 6 Access • 1 C-Port • Ø Tagged and Untagged • Untag Port VLAN • 1 Save Reset I I I I I I	*	<> v	1	\diamond	Ŧ	r ntering <i> ∎</i>	<> r	<> ···	- 1	34113	VEANS			
2 Access • 1 C-Port • ✓ Tagged and Untagged • Untag Port VLAN • 1	1	Access •	1	C-Port	٣	1	Tagged and Untagged v	Untag Port VLAN	1					
3 Access • 1 C-Port • Image and Untagged • Untag Port VLAN • 1 4 Access • 1 C-Port • Image and Untagged • Untag Port VLAN • 1 5 Access • 1 C-Port • Image and Untagged • Untag Port VLAN • 1 6 Access • 1 C-Port • Image and Untagged • Untag Port VLAN • 1 6 Access • 1 C-Port • Image and Untagged • Untag Port VLAN • 1 7 Tagged and Untagged • Untag Port VLAN • 1 1 1 1 6 Access • 1 C-Port • Image and Untagged • Untag Port VLAN • 1 1 1 1 1 1 1 1 1 5 Save Reset Image and Untagged • Im	2	Access •	1	C-Port	٣	1	Tagged and Untagged v	Untag Port VLAN	7 1					
4 Access • 1 C-Port • ✓ Tagged and Untagged • Untag Port VLAN • 1 5 Access • 1 C-Port • ✓ Tagged and Untagged • Untag Port VLAN • 1 6 Access • 1 C-Port • ✓ Tagged and Untagged • Untag Port VLAN • 1 5 Access • 1 C-Port • ✓ Tagged and Untagged • Untag Port VLAN • 1 6 Access • 1 C-Port • ✓ Tagged and Untagged • Untag Port VLAN • 1 Save Reset Image: Image: Image Image: Image Imag	3	Access •	1	C-Port	٣	1	Tagged and Untagged v	Untag Port VLAN	7 1					
5 Access • 1 C-Port • Image and Untagged • Untag Port VLAN • 1 6 Access • 1 C-Port • Image and Untagged • Untag Port VLAN • 1 Save Reset Image and Untagged • Untag Port VLAN • 1	4	Access 🔻	1	C-Port	Ŧ	1	Tagged and Untagged v	Untag Port VLAN	7 1					
6 Access 1 C-Port Tagged and Untagged Untag Port VLAN 1 Save Reset	5	Access •	1	C-Port	٣	1	Tagged and Untagged v	Untag Port VLAN	7 1					
Save Reset	6	Access •	1	C-Port	٣	Ø	Tagged and Untagged v	Untag Port VLAN	7 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	n 4 High Power PoE	managed Switch							
QCL Status Detailed Statistics VenPHY SFP	Save Running Configuration to startup-config											
Security	Please note: The genera	ation of the configur	ation file may be time o	consuming, depending or	n the amount of non-defa	ault configuration.						
Aggregation Redundancy IPMC Profile MVR	Save Configuration											
PIPMC												
LLDP Onfiguration PoE Check PoE Schedule Status												
MAC Table												
VLAN Translation VLANs Configuration Membership Ports												
Private VLANs GVRP VCL QoS Mirroring												
PTP (IEEE1588)												
Diagnostics												
Maintenance Reboot Factory Defaults Software Configuration so startum config												
 Backup Restore Activate Delete 	•											

