

To deploy the M10GxxBP modular tap system into your network, simply:

- Carefully unpack and inspect the tap modules and system chassis.
- Insert and fully seat the M10GxxBP modules into the M10Gxxxx chassis and secure modules using both screws.
- Install the tap and chassis assembly into any available 1U slot of a network rack and secure it with rack mount screws.
- Connect the power supply to the M10GxxBP and plug it into an available power source and turn on the power switch. Note: <u>A VLAN message on the LCD screen is normal</u>.
- Utilizing the CLI or GUI, configure the M10GxxBP for the operating mode of your choice (default is bypass mode).
- Remove the power supply to the M10Gxxxx chassis temporarily.
- Using standard Ethernet cables, connect **NETWORK** ports [A] and [B] of the M10GxxBP between the two live network devices where you would otherwise deploy an inline appliance or sensor (for example: IPS or DLP). Verify network traffic is flowing, confirming that network cabling is correct.
- Connect MONITOR ports [A] and [B] to the inline IPS/DLP appliance or other tools for traditional breakout or aggregated traffic monitoring.
- Connect the power leads to the M10Gxxxx chassis power supplies and plug it into an available power source. Turn on the chassis power switch. Note: <u>A VLAN message on the LCD screen is normal</u>.
- Notes: * Fiber is always 10Gbps speed. Other operating modes may be desired for monitoring and may be configured using the CLI or GUI.
 - * If you wish to replace one of the modules in a chassis without shutting the power to the entire chassis, you need to remove power to the module that you wish to replace through the CLI using the "power_off" command. See Sub-paragraphs 6.56.8 and 6.56.9 on page 69 of the User Guide.







LFP or Link Failure Propagation: Allows link state to be mirrored to adjacent live network interfaces. When one side of a network loses link on a connecting tap, the link state is propagated to the other interface of the tap and ultimately to the other side of the network. Enabled by default.
LK or Link/Activity: Solid when link is achieved and flashes when data is detected on an interface.
BP or Bypass: A mode that allows active temporary bypass of an inline appliance or sensor type IPS/DLP device. Bypass is based on the operating characteristics of the connected network appliance. When a bypass tap device is not able to detect link or heartbeats from (or through) inline appliance or sensor connecting to the C and D sensor port pair, the appliance is bypassed automatically, keeping link up and networks online and passing data.
Aggregation: Combines data flows for full-duplex monitoring on a single interface. Ideal when monitoring both sides of network traffic simultaneously.
Breakout: Separates data flows for half-duplex directional monitoring. Ideal when utilization is very high and packet loss is not an option.
SPAN or Regenerate: Allows users to multiply one or more inputs into many outputs. BP LED's are not used while this mode is configured.
FailSafe: On power loss, live network tap ports re-establish link with each other, resuming traffic flow between critical network devices. Always on.
Reverse Bypass: Disables link on both live network ports if all inline appliances lose link or cannot pass traffic. Disabled by default.
Packet Injection: Allows monitor ports to inject Ethernet frames back into the live network flows.



See every bit, byte, and packet®



M10GxxBP Series Modular Tap Installation Guide







Garland Technology | New York + Texas + Germany | GarlandTechnology.com | sales@GarlandTechnology.com

Pg 4

Α

Α

1



M10GxxBP Series Modular Tap **Installation Guide**



Е

С

т









Ver 2.2.1







M10GxxBP Series Modular Tap Installation Guide

See every bit, byte, and packet®





User: Password: Log in Cancel
Default Login Credentials admin gtadmin1







			Ву	pass configuration		
	HB activ	e mode 🚽	HB active mode lock	HB active restore	HB interval	HB hold time
	Active b	ypass	HB active expire			
	linline		bypass 💌			
1	BYPASS	Bypass	mode			
2	TAD	Applian	ce inline mode	0		
5	IAP		ode (Directional Monitoring)			
4	LINKDRU	P Failed A	Appliance Disables Live Link			
5	TAPI12	TAP M	ode with Injection			
6	TAPA	Aggreg	ate Mode (Combined Monito	oring)		
7	TAPAI1	Aggreg	ate Mode with Dual Injection	n from Mon0		
8	TAPAI2	Aggreg	ate Mode with Dual Injection	n from Mon1		
9	TAPAI12	Aggreg	ate Mode with Dual Injection	n from Mon0 and Mon1		
			A	dvanced features		
	2 port	link	Who am I	HB tx dir	HB fail	
	off	+	off 🔻	mon0 👻	unidir 🔻	



		system		
Unit name	Telnet	Config	guration	
	on 🗾			
		TACACS		
TACACS state	TACACS server	ip TACACS	secret key	Multi users
off 📃 💌	192.168.0.6			off 💌
		Time		
Sun Apr 8 07:12:00 2	012 DayLight	Timezo Etc	ne group	Timezone
		NTP		
NTP	NTP server ip 192.168.0.6			
1	Ethernet management port		Permitted	Network IP list
System IP	Netmask	Default Gateway	Operations	Permitted IP
192.168.0.100	255.255.255.0	192.168.0.1	view 💌	all



Interface	Name	Old Password	New Password	Confirm new Password	WEB session timeou (sec) 900
					1000

Version	Ser 192.168	ver IP :.0.6						
				SNMP trap	account			
Operatio	ns	Trap accou	nt					
view	✓ Ma	ain SNMP serv	er 💌					
				SNMP trap	control	8		
Appl fail	Bypass	Mon link	Net link	Terminal	Error	Log size	Update	



Web Interface Orientation Log file view Mon port 0: link down Sun Mar 28 05:23:25 2010 -Mon port 0: link down Sun Mar 28 05:24:12 2010 Mon port 0: link up Sun Mar 28 05:25:33 2010 Appliance recovered: Sun Mar 28 05:25:34 2010 Mon port 1: link down Sun Mar 28 05:25:50 2010 Mon port 1: link up Sun Mar 28 05:26:11 2010 Appliance recovered: Sun Mar 28 05:26:11 2010 Passive bypass on: Sun Mar 28 05:30:25 2010 swdaemon: Log closed: Sun Mar 28 05:30:26 2010 swdaemon (version 1.0.2.60) started: Sun Mar 28 05:31:35 2010 Link dropped off: Sun Mar 28 05:31:41 2010 Passive inline on: Sun Mar 28 05:31:42 2010 < << >> >| swdaemon 💌 Swdaemon log file control Log file Reset log file Log file size status: flash 🔻 within bound Remote log file control Remote log Remote log ip 192.168.0.6 off 🔻 Apply Status:



Current heartbeat packet content 000: 00 e0 ed 13 24 ff 00 e0 ed 13 24 fe 81 00 00 04 010: 81 37 ff ff 00 30 00 00 00 00 40 04 ec a2 c6 13 020: 01 02 c6 13 01 01 00 00 00 00 00 00 00 00 00 00 030: 00 00 00 00 00 00 00 00 00 00 00 00 0							3	He	artb	eat p	ack	et					
000: 00 e0 ed 13 24 ff 00 e0 ed 13 24 fe 81 00 00 04 010: 81 37 ff ff 00 30 00 00 00 00 40 04 ec a2 c6 13 020: 01 02 c6 13 01 01 00 00 00 00 00 00 00 00 00 00 030: 00 00 00 00 00 00 00 00 00 00 00 00 00						Cu	rren	t he	artb	eat pa	acke	et co	onte	ent			
010: 81 37 ff ff 00 30 00 00 00 40 04 ec a2 c6 13 020: 01 02 c6 13 01 01 00 00 00 00 00 00 00 00 00 00 030: 00 00 00 00 00 00 00 00 00 00 00 00 0	000:	: 00	e0	ed	13	24	ff	00	e0	ed	13	24	fe	81	00	00	04
020: 01 02 c6 13 01 01 00 00 00 00 00 00 00 00 00 00 030: 00 00 00 00 00 00 00 00 00 00 00 00 0	010:	81	37	ff	ff	00	30	00	00	00	00	40	04	ec	a2	с6	13
030: 00 00 00 00 00 00 00 00 00 00 00 00 0	020:	: 01	02	c6	13	01	01	00	00	00	00	00	00	00	00	00	00
040: a0 07 37 99 Select new heartbeat packet	030:	: 00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
Select new heartbeat packet	040:	: a0	07	37	99												
			2	Sele	ct n	ew	hea	utbe	eat p	acket							



New firmwa Reboot the update, ot	O6sop Force Update te will take effect after rebooting. device only after you have successfully finished all parts of verwise device might malfunction.
New firmwa Reboot the update, ot	e will take effect after rebooting. device only after you have successfully finished all parts of erwise device might malfunction.
	System restore
🗆 Set default	
Reset errors	



Serial Console Cable Pinout





I. Serial Console Settings

M10GxxBP administrators may gain access to the command line interface environment using a serial terminal emulator console using the settings below:

 Bits per second:
 115200

 Data bits:
 8

 Parity:
 None

 Stop:
 1

 Flow Control:
 None

II. Login Credentials

The "**admin**" account grants full access and permission to a device. The default password for admin is "**gtadmin1**". Administrators may change the default login credentials by issuing the following commands:

Set_usr	Changes the user account login name
Set_psw	Changes the user account password

III. Command Help

M10GxxBP allows commands for configuring each module independently. Command help may be issued by executing the following commands:

Help	Provides a list of all show and set type commands
Help full	Provides a list of all show and set commands including a detailed description of each
Exit	command and its usage Logs out and exits the command line interface

IV. IP Management Interface

M10GxxBP system administrators may choose to manage the device via the provided Ethernet port. The default IP address parameters are:

Address:	10.10.10.200
Netmask:	255.255.0.0
Gateway:	0.0.0.0

M10GxxBP system administrators may set the Ethernet management port's IP address parameters with the following commands:

Set_ip	Configures an IPv4 address
Set_netmask	Configures an IPv4 subnet mask
Set_gateway	Configures an IPv4 default network gateway

V. Web Interface Login

M10GxxBP system administrators may choose to configure and manage devices via web or graphical user interface. After changing the management port's IP address, you have the option to access the graphical user interface using a web browser application, such as Google Chrome or Mozilla Firefox. Simply browse to your devices assigned IP address and login using the login credentials:

Address: Username: Password: http://10.10.10.200 admin gtadmin1

*For product support and inquiries visit: www.garlandtechnology.com

This document is for informational purposes only. The information in this document, believed by Garland Technology to be accurate as of the date of publication, is subject to change without notice. Garland Technology assumes no responsibility for any errors or omissions in this document and shall have no obligation to you as a result of having made this document available to you or based upon the information it contains. Copyright 2016 Garland Technology LLC. All rights reserved.