How to Setup HD2 Dome With Local SIM Injector

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Together, the HD2 Dome and SIM Injector enable deployments where the router can be strategically placed for the best signal (such as a rooftop of the mast of a ship). At the same time, the SIM cards can be conveniently located in the office, passenger area, or bridge for easy changing. For full details on the benefits and use cases of these products, the datasheet is available at:

http://download.peplink.com/resources/pepwave_MAX_HD2_IP67_DOME_datasheet.pdf

For this document, the HD2 Dome is installed on the rooftop of the truck, and an Ethernet cable connects between the indoor SIM Injector and outdoor HD2 dome.





Firmware Requirement

Product	Firmware Version	Firmware Download Link				
MAX HD2 Dome	7.1.1s137	https://download.peplink.com/firmware/plb1/fw-b1_210hw4_ 310hw4_br1ent_transit_m700hw3_hd2mini_hd4-7.1.1s137- build4102.bin				
SIM Injector	1.0.29	https://download.peplink.com/firmware/simbank/fw-simbank				
If the SIM Injector is running firmware version 1.0.24 or older, you need to upgrade to the following 1.0.25 first before upgrading to 1.0.29.						
SIM Injector	1.0.25	https://download.peplink.com/firmware/simbank/fw-simbank				

Setting Up the HD2 Dome and SIM Injector:

1. Check and upgrade the firmware of the HD2 Dome

- a. Login to the HD2 Dome via https://192.168.50.1
- b. Check the firmware version.



c. Upgrade the firmware to 7.1.1s137 if the device is running an earlier firmware.

2. Locate the IP address of the SIM Injector from the HD2 Dome's Client List

a. Take note of the MAC Address from the SIM Injector, located on the silver label on the bottom of the SIM Injector.





b. Then, go to the Client List in Web Admin of HD2 Dome (Status > Client List), and find the IP address of the SIM Injector according to MAC address

Cli	ent List					?
	IP Address 🔺	Name	Download (kbps)	Upload (kbps)	MAC Address	Import
	192.168.50.10		0	0	0	•
	192.168.50.11		0		0	•
	192.168.50.12		0		D8:F1:F0:AA:BB:CC	•

3. Login to the SIM Injector

- a. Login via http://<The SIM Injector IP address you found in the last step>, (in this example, the URL of SIM Injector is http://192.168.50.12
- b. Check the firmware version of SIM Injector, and upgrade it to 1.0.29 if the device is running an earlier firmware.

PEPXIM	Dashboard	Settings
System	Device	
SIM(s)	System Time:	Tue Dec 20 11:46:37 2018
Clients PoE	Model No:	SIM-BK8-4E-56V
POE	Serial No:	392C-AAAA-BBBB
	Software Version:	1.0.29
	Hardware Version:	2
	Integrity Check:	Verified

c. If the device is running firmware version 1.0.24 or older, you need to upgrade to 1.0.25 first before upgrading to 1.0.29



d. To upgrade the SIM Injector, please go to Settings > Firmware Upgrade

PEPXIM	Dashboard	> Settings
Network Reset Settings	Firmware Upgrade	
Firmware Upgrade	Opioad Firmware	Choose file No file chosen Upload



4. Configure the HD2 Dome to Use the SIM cards on the SIM Injector.

a. To enable SIM Injector discovery, please go to Advanced > Remote SIM Management

PEPWAVE	Dashboard	Network	Advanced	AP	System	Status	Apply Changes
Advanced							
 SpeedFusion 	Remote	SIM Host					
 IPsec VPN 	Remote S	SIM is disable	d				
Outbound Policy							

Enable "Auto LAN Discovery", and "Save"

PEPWAVE	Dashboard	Network	Advanced	AP	System	Status		
Advanced								
 SpeedFusion 	Remote	SIM Host	Settings					×
 IPsec VPN 	Auto LAN	Discovery		2				
 Outbound Policy 	Remote S	SIM Host						
 Port Forwarding 			_					
NAT Mappings								
QoS							 	
 User Groups 								Save
Bandwidth								

Then, apply the changes

PEPWAVE	Dashboard	Network	Advanced	АР	System	Status			Apply Change
Advanced									
 SpeedFusion 	Saved!	Changes will	be effective	afte	r clicking t	ne 'Apply	Changes' butt	on.	
 IPsec VPN 									
 Outbound Policy 	Remote	SIM Host	<i>MAMMAMA</i>	***	handala	hanna	ten en e	, ann an ann ann an ann an ann an an ann an a	
 Port Forwarding 	Auto LAN	Discovery							
NAT Mappings	Domato	CTM Manage						Correct	
QoS	Remote	SIM Manage	iment		No R	emote SIM	Defined	Server	Slot
 User Groups 						dd Remot			
 Bandwidth 									



b. To connect to the SIM Injector from the HD2 Dome, press the "details" button next to Cellular WAN 1 from the Dashboard.

Priority 1 (Highest)		
🎦 Cellular 1	📶 🧧 Connected to 1010 LTEA	Details
🔁 Cellular 2	📶 🦲 Connected to 1010 🖽	Details
Priority 2		
	Drag desired (Priority 2) connections here	
Disabled		
	Drag desired (Disabled) connections here	

Choose "Use Remote SIM Only", and "Scan nearby remote SIM server"

Cellular 1 Status		0
	SIM Card A	SIM Card B
IMSI	(No SIM Card Detected)	(No SIM Card Detected)
MEID	HEX: 359074(DEC: 089865!	
IMEI	3590740	
WAN Connection Settings		
WAN Connection Name	Cellular 1	Default
Routing Mode	? • NAT	
DNS Servers	 ✓ Obtain DNS server address au ○ Use the following DNS server a ○ DNS Server 1: ○ DNS Server 2: 	
Cellular Settings		
SIM Card	O Both SIMs O SIM A Only O	SIM B Only 💿 Use Remote SIM Only
Remote SIM Settings	Control by Fusion SIM Cloud	
	Scan nearby remote SIM server	
		SIM Card B

Choose the SIM Injector and update the settings and save the changes.



Rem	ote SIM Serve	r Detection	*				
	2C-AAAA-BBBB						
Check	<u>Check again</u>						
	Update Remo	Cancel					

Cellular Settings	
SIM Card	O Both SIMs O SIM A Only O SIM B Only O Use Remote SIM Only
Remote SIM Settings	392С-АААА-ВВВВ
	Scan nearby remote SIM server
	CIM Card A CIM Card P



If you repeat the steps from 4b) on Cellular 2, both cellular WANs will use the SIM cards from the SIM Injector.

WAN Connection Sta	atus	?
Priority 1 (Highest)		
🚹 Cellular 1	Connected to 1010 LTE-A	Details
2 Cellular 2	📶 🦲 Connected to 1010 LTEA	Details
Priority 2		
	Drag desired (Priority 2) connections here	
Disabled		
	Drag desired (Disabled) connections here	

c. If you want to select a specific SIM, in the Cellular Settings, type ":" and then the number of the SIM slot. For example, from the following screenshot, you will choose the SIM cards on slot 4 of the SIM Injector. Use multiple lines to specify multiple SIM slots.

Cellular Settings		
SIM Card	🔘 Both SIMs 🔿 SIM A O	Only 🔵 SIM B Only 🧿 Use Remote SIM Only
Remote SIM Settings	392C-AAAA-BBBB:4	
	Scan nearby remote SIM s	server
	SIM Card A	SIM Card B