



# SDX Pro Module Upgrade

June 2025

## Important Notes

### Tools required

1x Screwdriver - Phillips Head #2 / PH2

- Please take care with the connectors to not damage them.
- CAT12 FlexModules have 6x cellular antenna connections while CAT18 & CAT20 have 8x cellular antenna connections per FlexModule. So if you are upgrading from CAT12 to either CAT18 or CAT20, you will require additional antennas. The number of GPS antennas remains the same at one.
- FlexModules are fully interchangeable between the different types of FlexModules, e.g. ethernet, fibre, and cellular.

## Procedures

**Step 1:** Power off the router. The router **MUST** be disconnected from power before starting the upgrade.



**Step 2:** For cellular versions, disconnect all antennas including the GPS antennas.

**Step 3:** There are two screws on the front of the FlexModule; both need to be loosened. The screws are spring loaded and will be held in place so as to not fall out. The screws remain with the FlexModule.



**Step 4:** Remove the module by pulling it out directly. It should slide out with minimal force.



**Step 5:** Install the new module. Make sure it is correctly aligned and press the module firmly into place. The FlexModule should sit flush with surrounding FlexModules or slightly countersunk (1-2mm) of the router chassis.



**Step 6:** Tighten the screws until flush and tight with the collar.



**Step 7:** Reconnect the antennas.

**Step 8:** Reconnect the power.

## **FCC Requirements for Operation in the United States Federal Communications Commission (FCC) Compliance Notice:**

### **For FlexModule Plus**

#### **Federal Communication Commission Interference Statement**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Any changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

#### **Radiation Exposure Statement**

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

#### **Industry Canada Statement**

This product meets the applicable Innovation, Science and Economic Development Canada technical specifications.

Le présent produit est conforme aux spécifications techniques applicables d'Innovation, Sciences et Développement économique Canada.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en

### **Radiation Exposure Statement**


This device complies with the ISED radiation exposure limit set forth for an uncontrolled environment. This device should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement est conforme avec l'exposition aux radiations ISED définies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance minimum de 20 cm entre le radiateur et votre corps.

## CE Statement for Pepwave Routers ( FlexModule Plus for MV31-W )

### DECLARATION OF CONFORMITY

We affirm the electrical equipment manufactured by us fulfils the requirements of the Radio Equipment Directive 2014/53/EU.

Name of manufacturer	PISMO LABS TECHNOLOGY LIMITED
Contact information of the manufacturer	A8, 5/F, HK Spinners Industrial. Building., Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong tel. (852) 2990 7600, fax. (852) 3007 0588 e-mail: cs@peplink.com
Description of the appliance	PEPWAVE / PEPLINK Balance Product
Model name of the appliance	FlexModule Plus 2x 5G Modules FlexModule Plus EXM-2X5GD
Trade name of the appliance	 PEPWAVE

The construction of the appliance is in accordance with the following standards:

EN 301 908-1 V13.1.1  
EN 303 413 V1.1.1  
EN 62311: 2008  
EN 301 489-1 V2.2.3  
Draft EN 301 489-19 V2.2.0  
Draft EN 301 489-52 V1.1.2  
EN 55032: 2015 + A11:2020  
EN 55035: 2017 + A11:2020  
EN 61000-3-2: 2014  
EN 61000-3-3: 2013  
EN 62368-1:2014 + A11:2017

Yours sincerely,



Antony Chong  
Director of Hardware Engineering  
Peplink Pte. Limited



	AT	BE	BG	HR	CY	CZ	DK	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL	PT	RO	SK	SI	ES	SE	UK(NI)

**WWAN : Refer 3GPP TS 36.521 -1 ( UE Power class )**


5G	Bands	FR1 (Sub 6G): FDD: n1, n3, n28 TDD: n78
	Band combinations	For supported E-UTRAN New Radio Dual Connectivity (EN-DC) see [2]
	4x4 MIMO	n1, n3, n78
	DSS	n1, n3, n28
	Category	3GPP Rel 15 256 QAM UL/DL
	Output Power	FR1 (Sub 6G): n78: 25.5dBm +1.5/-1dB (HPUE) All other bands: 23dBm ±1dB
4G	Bands	FDD: B1, B8, B20
	Band combinations	For supported carrier aggregations (CA) see [2]
	4x4 MIMO	B1
	RX Diversity	All LTE bands
	Category	UE Cat. 13 (UL: 150Mbps) + UE Cat. 20 (DL: 2Gbps); 7xDL CA, 3xUL CA (Intra-band), 5xDL CA+4X4 MIMO (Up to UE Cat20) 256 QAM UL/DL
	Output Power	B1: 23dBm ±1dBm B8, B20: 23.5dBm ±1dBm

This equipment complies with CE radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body.

**contact as:** <https://www.peplink.com/>

**UK Statement for Pepwave Routers ( FlexModule Plus for MV31-W )**

**UK DECLARATION OF CONFORMITY**

Name of manufacturer	PISMO LABS TECHNOLOGY LIMITED
Contact information of the manufacturer	A8, 5/F, HK Spinners Ind. Bldg., Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Kowloon, Hong Kong tel. (852) 2990 7600, fax. (852) 3007 0588 e-mail: cs@peplink.com
Description of the appliance	PEPWAVE / PEPLINK Wireless Product
Model name of the appliance	FlexModule Plus 2x 5G Modules FlexModule Plus EXM-2X5GD
Trade name of the appliance	 <b>PEPWAVE</b>

We declare under sole responsibilities that the above product conforms to the applicable requirements of following relevant UK legislation and designed standards.

### **UK legislation**

Radio Equipment Regulations 2017

### **UK Designed Standard**

EN 301 908-1 V13.1.1  
EN 303 413 V1.1.1

### **Other Standards Applied**

EN 62311: 2008  
EN 301 489-1 V2.2.3  
Draft EN 301 489-19 V2.2.0  
Draft EN 301 489-52 V1.1.2  
EN 55032: 2015 + A11:2020  
EN 55035: 2017 + A11:2020  
EN 61000-3-2: 2014  
EN 61000-3-3: 2013  
EN 62368-1:2014 + A11:2017

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