Device Connector Rugged
Vendor Neutral Bridge, Extend SpeedFusion to Wi-Fi

Specifications

	Device Connector Rugged
Product Code	DCS-RUG
Wi-Fi Interface	802.11ac/a/b/g/n 3x3 MIMO
Ethernet Port	2x GE
Hardware Features	
Enclosure	Indoor Metal
Dimension	5.8 x 5.0 x 1.6 inches 147 x 128 x 40 mm
Weight	0.96 pounds 435 grams
Power Input	Device: 12V - 36V DC AC Adapter: AC Input 100V – 240V / DC Output 12V Terminal Block: 12V - 36V DC 802.3af PoE (Injector Not Included)
Power Consumption	8.5W, max. 13W
Operating Temperature	-4° – 149°F -20° – 65°C
Humidity	15% – 95% (non-condensing)
Certification	FCC, CE, RoHS
Warranty	1-Year Limited Warranty

Rugged enclosure ideal for demanding applications

5.0 inches
128 mm

1.6 inches
40 mm

5.8 inches
147 mm

LED

2x GE with 802.3af PoE LAN

Reset Button

12V - 36V DC Terminal Block

12V-36V DC Connector

RP-SMA Wi-Fi Antenna Connectors

Product Ordering Information

Device Connector

Product Code	Product Name	Description
DCS-RUG	Device Connector Rugged	802.11ac/a/b/g/n layer 2 client bridge in metallic indoor enclosure. Manageable by InControl cloud management.

Features

Network
Bridge Mode
Router (NAT) Mode
Support for PPP, Static IP, DHCP
Management VLAN (802.1p)
Spanning Tree Protocol (802.1d)

Radio
Multiple SSID
Transmit Power Adjustment

AP Security
Open, WEP
802.1x with Dynamic WEP
WPA-PSK/RADIUS
WPA2-PSK/RADIUS

Client Authentication
EAP-TTLS/EAP-PEAP/EAP-TLS
CHAP/MSCHAP/MSCHAPV2/PAP
EAP Outer Authentication Identity
RADIUS Server with Certificate Authentication

Complete VPN Solution
PepVPN
   Site-to-Site VPN
   256-bit AES Encryption
   Pre-shared Key Authentication
   Dynamic Routing

Device Management
Web Administrative Interface
InControl Cloud Management
SNMP v1, v2c and v3

Certification
FCC, CE, RoHS

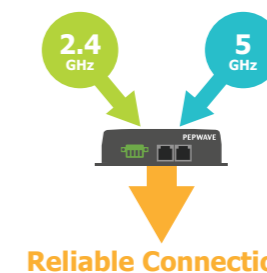The Device Connector enables Ethernet devices to access wireless networks with unbreakable reliability. Using our signal bonding technology, Ethernet devices can connect using the combined bandwidth of 2.4GHz and 5GHz frequency Wi-Fi in a single LAN connection. The Device Connector is compatible with any access point, so you can just drop it in and go no network reconfiguration or device upgrades needed.

Need to Connect to Wi-Fi?

Need More Reliability?

2.4 GHz   5 GHz

Reliable Connection

Jumping Between APs?

AP 1   AP 2

Get the Coverage You Need Without Setup. Plug-and-Play.

Easily extend Wi-Fi coverage in minutes with Pepwave's Device Connector. The Device Connector gets your devices talking over a large area without wires or configuration headaches. And because it works transparently at Layer 2, the Device Connector is compatible with any access point.

Turn your 2.4GHz and 5GHz Signals Into One Connection.

Normally, Wi-Fi devices will force you to choose between 5GHz or 2.4GHz. With the Device Connector, you can have both. Simply connect your device to the Ethernet port and the device connector will combine 5GHz and 2HGz into a single reliable connection.
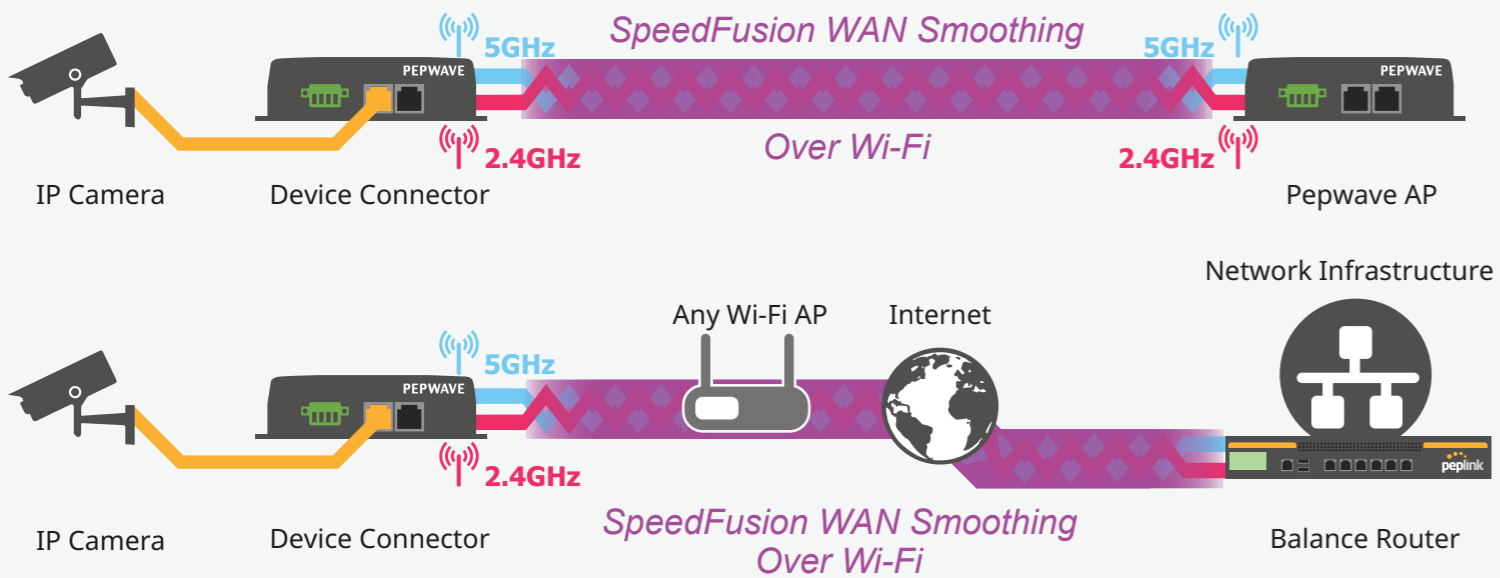
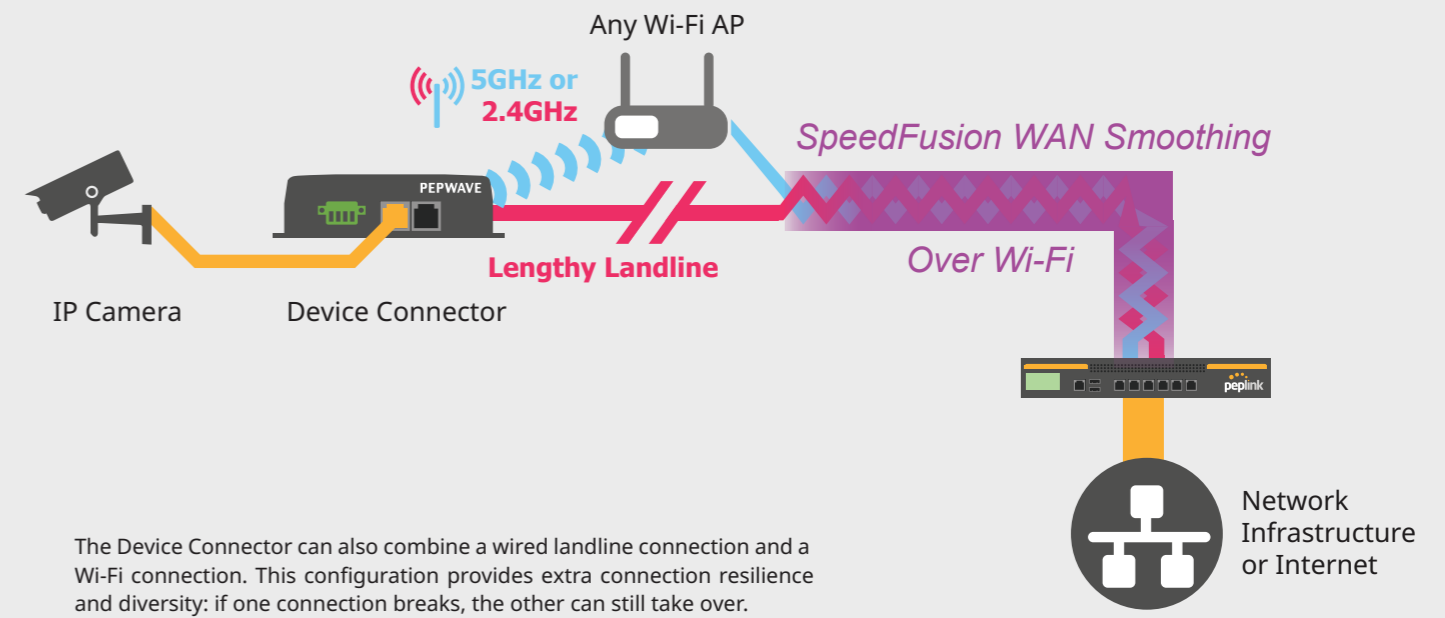### CarFi Fast Roaming. WAN Reliability with Wi-Fi Mobility.

CarFi Fast Roaming, available as an optional software upgrade, lets your Device Connector seamlessly hop from AP to AP in a matter of seconds. Whether you're commanding an emergency situation, coordinating a construction project, or keeping your warehourse stocked, CarFi Fast Roaming keeps everyone communicating at all times.

Point-to-Point Deployment

SpeedFusion WAN Smoothing Over Wi-Fi

5GHz — 5GHz
2.4GHz — 2.4GHz

IP Camera — Device Connector — Pepwave AP

SpeedFusion WAN Smoothing Over Wi-Fi

5GHz
2.4GHz

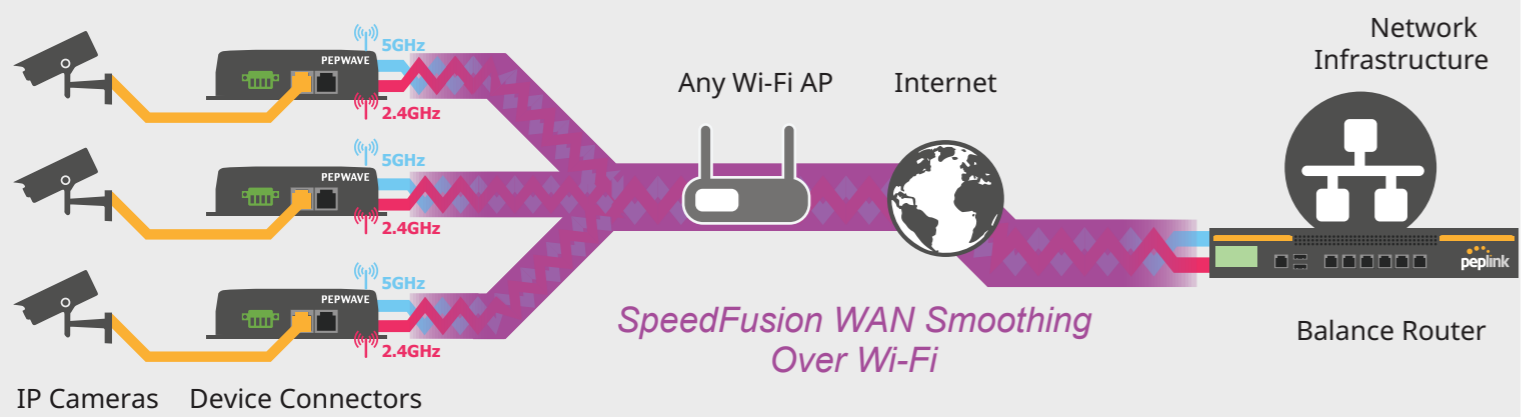IP Camera — Device Connector — Any Wi-Fi AP — Internet — Network Infrastructure — Balance Router

Using the Device Connector, the IP camera is able to upload videos using both the 5GHz and 2.4GHz frequencies at the same time. If one frequency loses connectivity, the other will seamlessly take over. If the network is using an AP from another vendor, frequency combination can also be achieved by forming a SpeedFusion tunnel between the device connector and a SpeedFusion-enabled router.

SpeedFusion Between Wi-Fi and Landline

Any Wi-Fi AP

5GHz or 2.4GHz

SpeedFusion WAN Smoothing Over Wi-Fi

Lengthy Landline

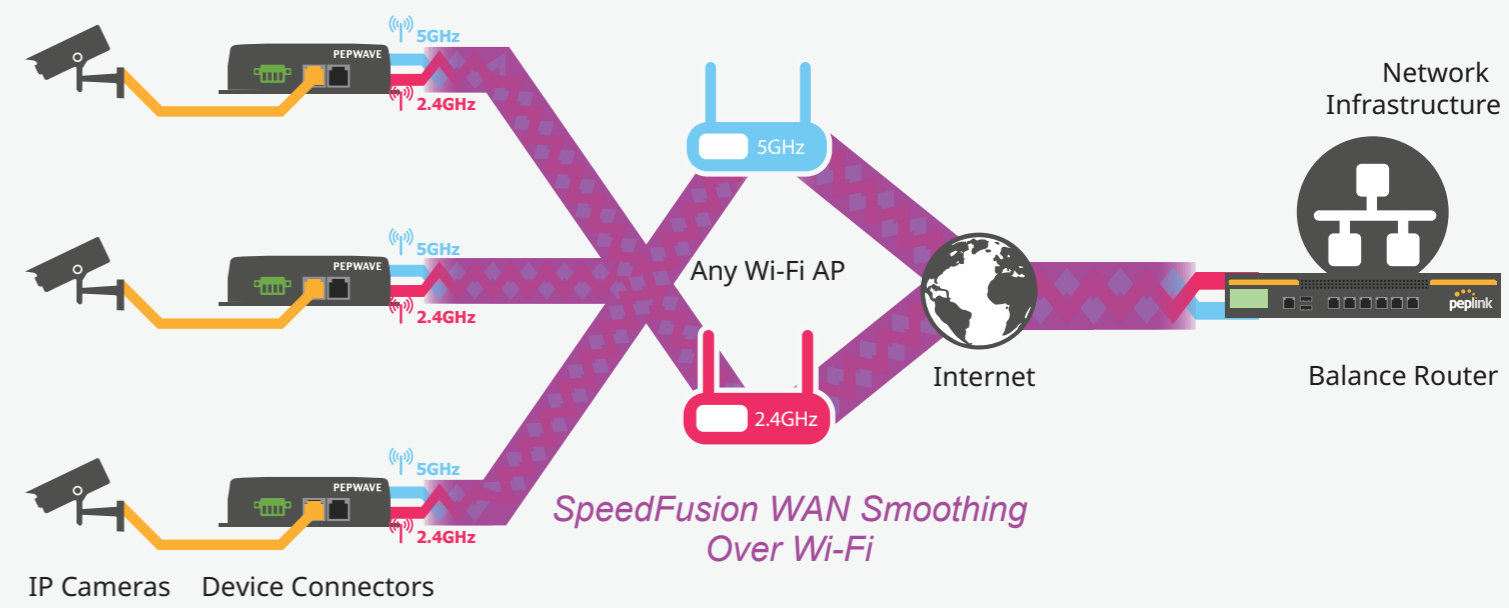IP Camera — Device Connector — Network Infrastructure or Internet

The Device Connector can also combine a wired landline connection and a Wi-Fi connection. This configuration provides extra connection resilience and diversity; if one connection breaks, the other can still take over.

One Access Point, Multiple Devices

5GHz
2.4GHz
5GHz
2.4GHz
5GHz
2.4GHz

Any Wi-Fi AP — Internet — Network Infrastructure

SpeedFusion WAN Smoothing Over Wi-Fi

IP Cameras — Device Connectors — Balance Router

Multiple devices could connect to headquarters using both the 2.4GHz and 5 GHz frequencies coming from a single AP. This is achieved by hooking up a Device Connector to each device, and then connecting them any AP. Using this configuration, the device connectors will be able to form SpeedFusion connections with the Balance Router located at the network infrastructure, providing the enhanced reliability of combined bandwidth.

Multiple Devices, Multiple Access Points

5GHz
2.4GHz
5GHz
2.4GHz
5GHz
2.4GHz

5GHz
2.4GHz

Any Wi-Fi AP — Internet — Network Infrastructure — Balance Router

SpeedFusion WAN Smoothing Over Wi-Fi

IP Cameras — Device Connectors

Even with each frequency coming from a different AP, the Device Connector can combine the 2.4GHz and 5.0 GHz frequencies. To do so, simply place a SpeedFusion enabled router at your network infrastructure to receive the combined traffic. This configuration provides additional reliability; if one AP ceases to function for any reason, all devices can still connect using the other AP.