

# ePMP Force 4525L Feedhorn

## ePMP 4525L Feedhorn Quick Look

- Replace just the feedhorn on existing ePMP™ Subscriber Modules (SM) without aligning a new dish
- Simplify installations, reduce cost, and reduce waste for upgrades from previous generation ePMP SMs
- Same PTP and PMP performance, mechanics, and interfaces plus 3-year warranty as the standard Force 4525 SM



Migrating an ePMP 3000-based network to the 4000 Series increases customer satisfaction, reduces churn, offers new higher speed packages, and increases capacity to bring new paying customers to your existing infrastructure.

By migrating from the ePMP 3000 to the ePMP 4500 or ePMP 4500L AP gives you a burst in performance. And you get additional benefits for each existing SM that is upgraded to a Force 4525L SM.

### ePMP Force 4525L Feedhorn

The **Force 4525L Feedhorn** is an innovative approach that makes network migration easier and more cost effective.

Operators can upgrade their existing dish SMs (Force 300-25, Force 300-25L, Force 200, Force 200L) with faster installations, lower price points, and reduced shipping/storage costs, while eliminating unnecessary waste.

The Force 4525L Feedhorn is the same radio as the Force 4525L with the same performance specifications and physical size, as well as a 3-year warranty. It just eliminates the parts you don't need when upgrading an existing dish-based SM.

When you deploy the Feedhorn, you reuse the existing dish, mounting bracket, power supply, and line cord. There's no need to realign the dish. It's an environmentally friendly approach because the existing hardware isn't scrapped. And the Feedhorn is lower priced than the full Force 4525L SM that includes the dish and accessories. It also takes up less than half the space of full dishes, saving on shipping and storage costs.

The Feedhorn comes with the hardware to allow upgrades for each of these scenarios:

1. Upgrading from a Force 300-25
2. Upgrading from a Force 300-25L or Force 200L
3. Upgrading from a Force 200

The Feedhorn optimizes your migration to next-gen ePMP, providing a boost in performance while saving time and money.

### Differentiating Features

- High capacity and latencies less than 5 ms when using ePTP technology
- Interoperability with the ePMP 4500, which uses MU-MIMO to achieve up to 4 Gbps per sector by transmitting to 4 ePMP 4500 SMs simultaneously
- Multiple levels of QoS (Quality of Service) for voice, video, and data applications
- Security features that meet requirements of enterprise, industry, government, and service provider users
- Management by Cambium's cnMaestro™ Network Management System for easy provisioning, monitoring, and upgrades
- Network planning with LINKPlanner and cnHeat
- Cambium's 3-year hardware warranty and support

## ePMP Force 4525L Feedhorn

Spectrum	
Channel Width MHz	20   40   80 MHz
Proprietary Physical Layer	2x2 MIMO/OFDMA
Channel Spacing	Configurable in 5 MHz increments
Frequency Range*	Wide band operation 5150–5920 MHz
MAC Layer (Media Access Control)	Cambium proprietary
Ethernet Interface	100/1000 BaseT, compatible with Cambium PoE & standard PoE pinouts
Protocols Used	IPv4/IPv6 (Dual Stack), UDP, TCP, ICMP, SNMPv2c, NTP, STP, IGMP, SSH
Network Management	IPv4/IPv6, HTTPs, SNMPv2c, SSH, cnMaestro
VLAN	802.1Q with 802.1p priority

\* Allowable frequencies and bands are dictated by individual country regulations.

Physical	
Surge Suppression	1 joule integrated
Environmental	IP55
Temperature	-30°C to 55°C (-22°F to 131°F)
Weight	1.88Kg (4.14 lb)
Wind Survival	200 km/hr (124 mi/hr)
Dimensions (Dia x Depth)	472 x 472 x 281 mm (18.5 x 18.5 x 11.0 in)
Pole Diameter Range	Center: 3.1 to 7.6 cm (1.25 to 3.0 in)
Power Consumption	13W
Input Voltage	Passive PoE 13–30V

Security	
Encryption	128-bit AES (CCMP mode), 256-bit AES optional, where allowed

Performance	
ARQ	Yes
Nominal Receive Sensitivity (w/FEC) @20 MHz Channel	MCS 0 = -91 dBm to MCS 11 (1024 QAM-5/6) = -59 dBm (per chain)
Nominal Receive Sensitivity (w/FEC) @40 MHz Channel	MCS 0 = -88 dBm to MCS 11 (1024 QAM-5/6) = -56 dBm (per chain)
Nominal Receive Sensitivity (w/FEC) @80 MHz Channel	MCS 0 = -85 dBm to MCS 11 (1024 QAM-5/6) = -53 dBm (per chain)
Modulation Levels (Adaptive)	MCS 0 (BPSK) to MCS 11 (1024 QAM-5/6)
Transmit Power Range	+3 to +28 dBm (combined, to regional EIRP limit) (1 dB interval)
QoS (Quality of Service)	Three level priority (voice, high, low) with packet classification by DSCP, COS, VLAN ID, IP & MAC address, broadcast, multicast and station priority, MIR/CIR* support

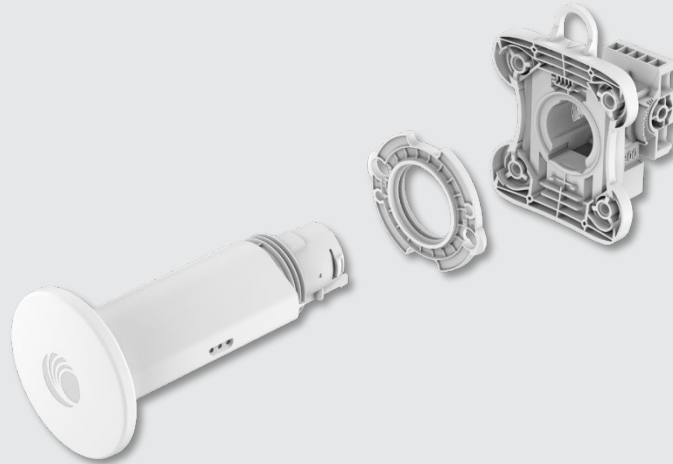
Certifications	
FCCID	N/A
FCC Regulatory Part #	N/A
ETSI Regulatory Part #	C050940P051A
Industry Canada Cert	N/A
CE	See Cambium website for Declaration of Conformity

Dish (Existing)	
Gain	25 dBi
3dB Beamwidth	7°
Front/Back Ratio	29 dB
Port-Port Isolation	>20dB

### ePMP Force 4525L Feedhorn

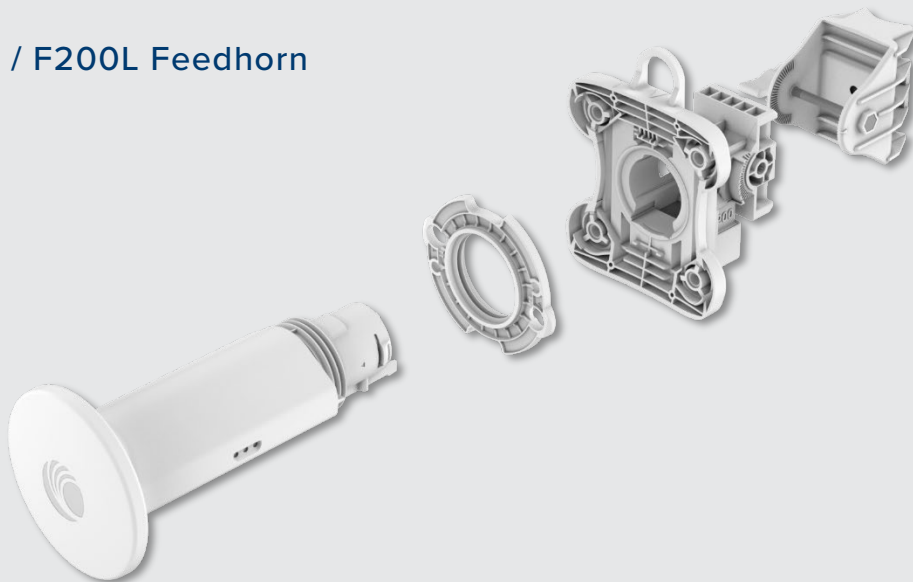
F200 Feedhorn



F300-25 Feedhorn



F300-25L / F200L Feedhorn



## ePMP Force 4525L Feedhorn

### Ordering Information

<b>C050940F051A</b>	ePMP 5 GHz Force 4525L Feedhorn for 300-25, 12-Pack packaging, priced per radio (ROW)
<b>C050940F253A</b>	ePMP 5 GHz Force 4525L Feedhorn for 300-25, 12-Pack packaging, priced per radio (EU)
<b>C050940F455A</b>	ePMP 5 GHz Force 4525L Feedhorn for 300-25, 12-Pack packaging, priced per radio (India)
<b>C050940F456A</b>	ePMP 5 GHz Force 4525L Feedhorn for 300-25, 12-Pack packaging, priced per radio (Indonesia)
<b>C050941F051A</b>	ePMP 5 GHz Force 4525L Feedhorn for 200L, 12-Pack packaging, priced per radio (ROW)
<b>C050941F253A</b>	ePMP 5 GHz Force 4525L Feedhorn for 200L, 12-Pack packaging, priced per radio (EU)
<b>C050941F455A</b>	ePMP 5 GHz Force 4525L Feedhorn for 200L, 12-Pack packaging, priced per radio (India)
<b>C050941F456A</b>	ePMP 5 GHz Force 4525L Feedhorn for 200L, 12-Pack packaging, priced per radio (Indonesia)
<b>C050942F051A</b>	ePMP 5 GHz Force 4525L Feedhorn for 200, 12-Pack packaging, priced per radio (ROW)
<b>C050942F253A</b>	ePMP 5 GHz Force 4525L Feedhorn for 200, 12-Pack packaging, priced per radio (EU)
<b>C050942F455A</b>	ePMP 5 GHz Force 4525L Feedhorn for 200, 12-Pack packaging, priced per radio (India)
<b>C050942F456A</b>	ePMP 5 GHz Force 4525L Feedhorn for 200, 12-Pack packaging, priced per radio (Indonesia)

### ABOUT CAMBIUM NETWORKS

Cambium Networks enables service providers, enterprises, industrial organizations, and governments to deliver exceptional digital experiences and device connectivity with compelling economics. Our ONE Network platform simplifies management of Cambium Networks' wired and wireless broadband and network edge technologies. Our customers can focus more resources on managing their business rather than the network. We make connectivity that just works.

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