

QUICK LOOK:

- Broad selection of high-performance subscriber modules (SM) for point-topoint (PTP) and point-to-multipoint (PMP) fixed wireless broadband applications
- Gbps capacity leveraging 160 MHz channels and 802.11ax technology
- SM in PMP applications interoperates with ePMP 4600 Access Points
- 3-year hardware warranty

Service providers face ever-increasing demand for capacity in a limited amount of spectrum. The Force 4600 series of subscriber modules (SM) meets this demand offering high performance and low latency across both PMP and PTP deployments.

The Force 4600 Series of SM's is available in two form factors: connectorized with 2 x RP-SMA connectors and integrated with a 25 dBi dish antenna. Both models include the following:

- High capacity and latencies less than 5 ms when using ePTP technology.
- Proven air interface on top of 802.11ax technology
- Interoperability with the ePMP 4600 Series SM which uses MU-MIMO to achieve more than 4 Gbps per sector by transmitting to two ePMP 4600 Series SM's simultaneously.
- Security features meeting the requirements of enterprise, industrial, government and service provider users.





- Management by Cambium Networks cnMaestro[™] element management system for easy provisioning, monitoring and upgrades.
- Network planning with LINKPlanner and cnHeat.
- 3-year hardware warranty and support from Cambium Networks.
- Each SM comes with a Power over Ethernet injector and pole mount hardware included.

Spectrum				
Specs in this table apply to all models, except where noted.				
Available Models	Force 4600C and Force 4625			
Channel Width MHz	20 40 80 160 MHz			
Proprietary Physical Layer	ePMP air interface with 2x2 MIMO/OFDMA based on 802.11ax underlying technology			
Channel Spacing	Configurable in 5 MHz increments			
Frequency Range	Wide Band Operation 5925–7125 MHz (Note: Allowable frequencies and bands are dictated by individual country regulations.) Operation under AFC (Automatic frequency coordination) control in FCC jurisdictions.			
MAC Layer (Media Access Control)	Cambium Proprietary			
Ethernet Interface	100/1000 BaseT, rate auto negotiated, 802.3at compliant; 4600C has SFP+ port			
Protocols Used	IPv4/IPV6 , UDP, TCP, IP, ICMP, SNMPv2c, HTTPs, STP, SSH, IGMP Snooping			
Network Management	HTTP/HTTPS, SNMPv1/2, SNMPv3, SSH			
VLAN	802.1Q with 802.1p priority			

Performance					
	Force 4600C	Force 4625			
ARQ	Yes	Yes			
Nominal Receive Sensitivity (w/FEC) @20 MHz Channel	MCS 0 = -92 dBm to MCS 13 (4096 QAM-5/6) = -53 dBm (per chain)	MCS 0 = -92 dBm to MCS 11 (1024 QAM-5/6) = -61 dBm (per chain)			
Nominal Receive Sensitivity (w/FEC) @40 MHz Channel	MCS 0 = -89 dBm to MCS 13 (4096 QAM-5/6) = -50 dBm (per chain)	MCS 0 = -89 dBm to MCS 11 (1024 QAM-5/6) = -58 dBm (per chain)			
Nominal Receive Sensitivity (w/FEC) @80 MHz Channel	MCS 0 = -86 dBm to MCS 13 (4096 QAM-5/6) = -47 dBm (per chain)	MCS 0 = -86 dBm to MCS 11 (1024 QAM-5/6) = -55 dBm (per chain)			
Nominal Receive Sensitivity (w/FEC) @160 MHz Channel	MCS 0 = -83 dBm to MCS 13 (4096 QAM-5/6) = -44 dBm (per chain)	MCS 0 = -86 dBm to MCS 11 (1024 QAM-5/6) = -51 dBm (per chain)			
Modulation Levels (Adaptive)	MCS 0 (BPSK) to MCS 13 (4096 QAM-5/6)	MCS 0 (BPSK) to MCS 11 (1024 QAM-5/6)			
Geolocation	Integrated GPS with antenna puck	External USB GPS receiver			
Transmit Power Range	+3 to +30 dBm (combined, to regional EIRP limit) (1 dB interval)	+3 to +30 dBm (combined, to regional EIRP limit) (1 dB interval)			
Quality of Service (QoS)	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	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			

Physical			
	Force 4600C	Force 4625	
Surge Supression*	1 Joule Integrated	1 Joule Integrated	
Environmental	IP67	IP55	
Temperature	-30°C to 65°C (-22°F to 149°F)	-30°C to 65°C (-22°F to 149°F)	
Weight	0.73 kg (1.61 lbs) without bracket	2.76 Kg (6.1 lbs)	
Dimensions (Dia x Depth)	256 x 125 x 47 mm (10.1 x 4.9 x 1.9 in)	472 x 472 x 296 mm (18.5 x 18.5 x 11.7 in)	
Pole Diameter Range	Center: 3.1 to 7.6 cm (1.25 to 3.0 inches)	Center: 3.1 to 7.6 cm (1.25 to 3.0 inches)	
Power Consumption	28W	28W	
Input Voltage	44V–59V	44V–59V	
Antenna	External Dish, PN# 2 x 50 ohm, RP SMA (Reverse Polarity)	25 dBi Integrated Dish	
GPS Antenna Connection	1 x 50 ohm, RP (Reverse Polarity) SMA; GPS Puck Antenna: Part # N000900L030A	Optional external USB GPS antenna - GPS Puck Antenna: Part # N000940L001A	

Security

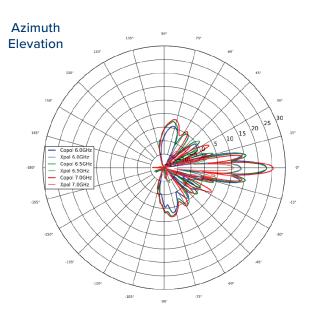
Encryption All models: 128-bit AES (0

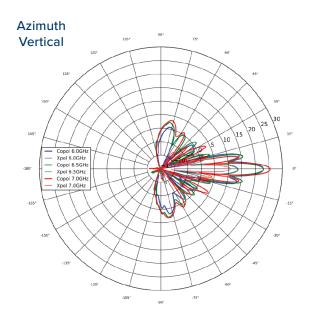
All models: 128-bit AES (CCMP mode), 256-bit AES optional where allowed

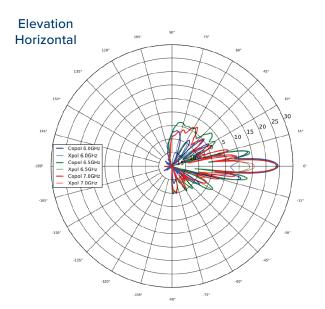
Certifications				
	Force 4600C	Force 4625		
FCCID	Z8H89FT0069	Z8H89FT0075		
FCC Regulatory Part #	C068940C122A	C068940M142A		
ETSI Regulatory Part #	C060940C021A	C060940M041A		
Industry Canada Cert	109W-0069	109W-0075		
CE	Visit cambiumnetworks.com for declaration of conformity	Visit cambiumnetworks.com for declaration of conformity		

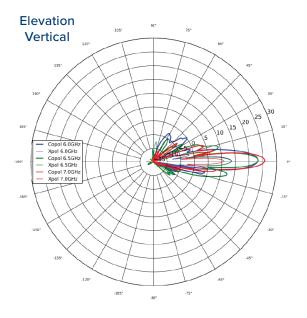


Force 4625 Antenna Patterns









Force 4600C Ordering Information		Force 4625 Ordering Information	
C060940C021A	ePMP 6 GHz Force 4600C SM Radio (ROW) (no cord)	C060940M041A	ePMP 6 GHz Force 4625 SM Bulk packaging (ROW) (no cord)
C060940C121A	ePMP 6 GHz Force 4600C SM Radio (ROW) (US cord)	C060940M141A	ePMP 6 GHz Force 4625 SM Bulk packaging (ROW) (US cord)
C068940C124A	ePMP 6 GHz Force 4600C SM Radio (IC) (Canada/US cord)	C068940M144A	ePMP 6 GHz Force 4625 SM Bulk packaging (IC) (Canada/US cord)
C060940C221A	ePMP 6 GHz Force 4600C SM Radio (ROW) (EU cord)	C060940M241A	ePMP 6 GHz Force 4625 SM Bulk packaging (ROW) (EU cord)
C060940C223A	ePMP 6 GHz Force 4600C SM Radio (EU) (EU cord)	C060940M243A	ePMP 6 GHz Force 4625 SM Bulk packaging (EU) (EU cord)
C060940C321A	ePMP 6 GHz Force 4600C SM Radio (ROW) (UK cord)	C060940M341A	ePMP 6 GHz Force 4625 SM Bulk packaging (ROW) (UK cord)
C060940C323A	ePMP 6 GHz Force 4600C SM Radio (EU) (UK cord)	C060940M343A	ePMP 6 GHz Force 4625 SM Bulk packaging (EU) (UK cord)
C060940C421A	ePMP 6 GHz Force 4600C SM Radio (ROW) (India cord)	C060940M441A	ePMP 6 GHz Force 4625 SM Bulk packaging (ROW) (India cord)
C060940C425A	ePMP 6 GHz Force 4600C SM Radio (India) (India Cord)	C060940M445A	ePMP 6 GHz Force 4625 SM Bulk packaging (India) (India Cord)
C060940C521A	ePMP 6 GHz Force 4600C SM Radio (ROW) (China cord)	C060940M541A	ePMP 6 GHz Force 4625 SM Bulk packaging (ROW) (China cord)
C060940C621A	ePMP 6 GHz Force 4600C SM Radio (ROW) (Brazil cord)	C060940M641A	ePMP 6 GHz Force 4625 SM Bulk packaging (ROW) (Brazil cord)
C060940C721A	ePMP 6 GHz Force 4600C SM Radio (ROW (Argentina cord)	C060940M741A	ePMP 6 GHz Force 4625 SM Bulk packaging (ROW) (Argentina cord)
C060940C821A	ePMP 6 GHz Force 4600C SM Radio (ROW) (ANZ cord)	C060940M841A	ePMP 6 GHz Force 4625 SM Bulk packaging (ROW) (ANZ cord)
C060940C921A	ePMP 6 GHz Force 4600C SM Radio (ROW) (South Africa cord)	C060940M941A	ePMP 6 GHz Force 4625 SM Bulk packaging (ROW) (South Africa cord)
C060940CZ21A	ePMP 6 GHz Force 4600C SM Radio (ROW) (No PSU)	C060940MZ41A	ePMP 6 GHz Force 4625 SM Bulk packaging (ROW) (No PSU)
C068940C122B	ePMP 6 GHz Force 4600C SM Radio (FCC) (US Cord)	C068940M142A	ePMP 6 GHz Force 4625 SM Bulk packaging (FCC) (US Cord)
C060940C226A	ePMP 6 GHz Force 4600C SM Radio (Indonesia (EU Cord)	C060940M246A	ePMP 6 GHz Force 4625 SM Bulk packaging (Indonesia) (EU Cord)

ABOUT CAMBIUM NETWORKS

Cambium Networks empowers millions of people with wireless connectivity worldwide. Its wireless portfolio is used by commercial and government network operators as well as broadband service providers to connect people, places and things. With a single network architecture spanning fixed wireless and Wi-Fi, Cambium Networks enables operators to achieve maximum performance with minimal spectrum. End-to-end cloud management transforms networks into dynamic environments that evolve to meet changing needs with minimal physical human intervention. Cambium Networks empowers a growing ecosystem of partners who design and deliver gigabit wireless solutions that just work.

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