

PMP 450m Access Point

Cambium Networks industry-leading 450 platform adds Multi-User MIMO capability with *cn*Medusa™ technology.

Key Features:

- cnMedusa™technology enhances sector capacity by combining a smart beamforming antenna array with multiple RF transmit and receive chains, effectively multiplying available capacity by more than three times.
- Capable of throughput of over 550 Mbps in a 20 MHz channel, and more than 1 Gigabit per second per sector when using a 40 MHz channel*.
- Multi-User MIMO more effectively uses available spectrum by simultaneous transmissions to multiple subscribers, increasing spectral efficiency to more than 40 bps/Hz.
- Protect your investment in the 450 platform equipment by continuing to utilize existing Subscriber Modules (both 450 and 450i SMs work with the 450m and cnMedusa technology, even prior generation 430 will connect)
- Dramatically reduce the effect of interference with smart beamforming
- SFP port allows for greater deployment flexibility, and AUX port allows for connection of camera or other PoE directly.
- The Limited Version can reduce capital investment until additional capacity is actually required. A 30-day trial of MU-MIMO operation is included, and a simple license key can permanently enable MU-MIMO operation when needed.







PRODUCT						
		RoW	US	EU	DES only	IC
Model Numbers	Integrated 90 degree sector	C050045A101A	C050045A102A	C050045A103A	C050045A104A	C050045A105A
	Limited Version	C050045A111A	C050045A112A	C050045A113A	C050045A114A	C050045A115A
SPECTRUM						
Channel Spacing	Configurable to 2.5 MHz channel spacing					
Frequency Range	5150-5925 MHz					
Channel Width	5, 10, 15, 20, 30* and 40* MHz					

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Specifications

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Ethernal Inferface	MAC (Media Access Control) Layer	Cambium Networks proprietary				
Proteocial Used	Physical Layer	14x14 Multi-User MIMO OFDM				
Not Note Not	Ethernet Interface	100/1000BaseT, full duplex, rate auto negotiated (802.3 compliant), SFP support up to 2.5G BiDi				
	Protocols Used	IPv4, UDP, TCP, IP, ICMP, Telnet, SNMP, HTTP, FTP				
Sibscriber Per Sector	Network Management	HTTP, HTTPS, Telnet, FTP, SNMP v3				
Sulface The Per Sector Up to 238 ARQ Yes Modulation Levels (Adaptive) MCS Signal to Noise Required (SNR, in dB) 2X OPSK 10 4X 16QAM 17 6X 64QAM 24 8X 256QAM 32 Maximum Deployment Range Up to 40 miles (64 km) 32 Latency 10 ms. Sprical 50 ms. Sprical 6PS Synchronization Yes, via Autosync (CMMS or UGPS) 32 Cuality of Service Diffserv Cos Latency 10 ms. Sprical Anterna Beam Width (Azimuth) 90° integrated sector (dual polarity, H+V) Anterna Beam Width (Azimuth) 90° integrated sector (dual polarity, H+V) Anterna Beam Width (Elevation) 2° Electrical Downfalt, 8° Elevation (with Null Fill) Maximum ElRP *42 dBm (or up to maximum allowed by regulation) PRYSICAL Anterna Connection Integrated Sector Array Surge Suppression (with IPU) PRAGORO-4-5: Lavi/Sous, Sou O voltage waveform Recommended external surge suppressor; Cambium	VLAN	802.1ad (DVLAN Q-inQ), 802.1Q	with 802.1p priority, dynamic port VID			
### MCS Signal to Noise Required (SNR, in dB) 2X	PERFORMANCE					
Modulation Levels (Adaptive) MCS Signal to Noise Required (SNR; in dB) 2X QPSK 10 4X 16GAM 17 6X 64QAM 24 8X 26GAM 32 Maximum Deployment Range Up to 40 miles (64 km) 32 Latercy 10 ms, typical 555 symchronization Yes, via Autosmic (CMM5 or UGPS) Quality of Sorvice Diffsery Qos 555 symchronization 555 symchronization Antenna Beam Width (Azimuth) 90° integrated sector (dual polarity, H+V) 555 symchronization 555 symchronization Maximum EIRP 42 dBm (or up to maximum allowed by regulation) 555 symchronization 555 symchronization PHYSICAL Antenna Genomection Integrated Sector Array 555 symchronization 555 symchronization Surge Suppression (with LPU) 266 symchronization 550 symchronization 550 symchronization Mean Time Between Failure 40 Years 40 Years 550 symchronization Feminomental 1967, 1966 400 symchronization 400 symchronization Weight	Subscriber Per Sector	Up to 238				
2X	ARQ	Yes				
4X 160AM 170AM 6X 64QAM 24 8X 2560AM 32 Maximum Deployment Range Up to 40 miles (64 km) Latency 10 ms, typical 6PS Synchronization Yes, via Autosync (CMM5 or UGPS) Quality of Service Diffserv OoS LINK BUDGET Antenna Beam Width (Azimuth) 90° integrated sector (dual polarity, H+V) Antenna Beam Width (Elevation) 2° Electrical Downtilt. 8° Elevation (with Null Fill) PMSICAL Antenna Onnection Integrated Sector Arnay Surge Suppression (with LPU) EN0000-4-5: 12is/50us, 500 V voltage waveform Recommended external surge suppressor. Cambium Networks Model # C000065L007B Mean Time Between Failure > 40 Vears Environmental P67, P66 Temperature / Humidity - 40°C to +60°C (-40°F to +140°F), 0-95% non-condensing Wind Survival 124 mph / 200 kph Wind Survival 124 mph / 200 kph Wind Loading - Front Facing @ 90 mph / 144 kph 376N @ 110 mph / 177 kph 562 N @ 124 mph / 200 kph Dimensions (HxWkD) Integrated 90 Weak (up to 110 W max with AUX port P6E enabled) Integrated 42.5-59 V DC	Modulation Levels (Adaptive)	MCS	Signal to Noise Required (SNR, in dB)			
6X 64QAM 256QAM 32 Maximum Deployment Range Up to 40 miles (64 km) Latency 10 ms, typical GPS Synchronization Yes, via Autosync (CMMS or UGPS) Quality of Service Diffserv QoS LINK BUDGET Antenna Beam Width (Azimuth) 90° integrated sector (dual polarity, H+V) Antenna Beam Width (Azimuth) 2° lectrical Downtilt. 8° Elevation (with Null Fill) Maximum EIRP +42 dBm (or up to maximum allowed by regulation) PHYSICAL Antenna Connection Integrated Sector Array Surge Suppression (With LPU) EN6(000-4-5: 12us/50us, 500 V voltage waveform Recommended external surge suppressor: Cambium Networks Model # C000065L007B Mean Time Between Failure > 40 Years Environmental P67, P66 Temperature / Hunidity -40°C to +60°C (-40°F to +140°F), 0-95% non-condensing Wight Integrated (90 mph / 174 kph 376N Wind Survivol 124 mph / 200 kph 376N Wind Loading - Front Facing 90 mph / 144 kph 376N Dimensions (HxWxD) Integrated 52 x 65 x 11 cm (20.3" x 25.7" x 4.4") Power Consumption 70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled) Input Voltage 42.5-59 V DC	2X	QPSK	10			
Maximum Deployment Range Up to 40 miles (64 km) Latency 10 ms, typical GPS Synchronization Yes, via Autosync (CMM5 or UGPS) Quality of Service Diffserv OoS LINK BUDGET Antenna Beam Width (Azimuth) 90° integrated sector (dual polarity, H+V) Antenna Beam Width (Azimuth) 42 dBm (or up to maximum allowed by regulation) PHYSICAL Antenna Connection Integrated Sector Array Surge Suppression (with LPU) Refollood-45: 12u/5/pous, 500 V voltage waveform Recommended external surge suppressor: Cambium Networks Model # C000065L0078 Mean Time Between Failure > 40 Years Environmental PF6, IP66 Temperature / Humidity -40°C to +60°C (-40°F to +140°F), 0-95% non-condensing Weight Integrated @ 90 mph / 144 kph 376N @ 110 mph / 177 kph 612 mph / 200 kph Wind Loading - Front Facing @ 90 mph / 144 kph 376N @ 110 mph / 177 kph 562 N @ 124 mph / 200 kph Integrated 32 x 65 x 11 cm (20.3" x 25.7" x 4.4") Power Consumption 70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled) Input Voltage 425-59 V DC	4X	16QAM	17			
Maximum Deployment Range Up to 40 miles (64 km) Iatency 10 ms, typical GPS Synchronization Yes, via Autosync (CMM5 or UGPS) Quality of Service Diffsery QoS LINK BUDGET Antenna Beam Width (Azimuth) 90° integrated sector (dual polarity, H+V) Antenna Beam Width (Azimuth) 42 d Bm (or up to maximum allowed by regulation) PHYSICAL Antenna Connection Integrated Sector Array Surge Suppression (with LPU) Roitonamental PF3, IP66 Femperature / Humidity 40°C to +60°C (-40°F to +140°F), 0-95% non-condensing Weight Integrated 99 mph / 144 kph 376N Wind Survival 124 mph / 200 kph Wind Loading - Front Facing 99 0 mph / 147 kph 36 N Dimensions (HxWxD) Integrated 42.5-99 V DC Weight Quality of Service 10 mg + 100 mg +	6X	64QAM	24			
Latency 10 ms, typical GPS Synchronization Yes, via Autosync (CMM5 or UGPS) Quality of Service Diffserv QoS LINK BUDGET Antenna Beam Width (Azimuth) 90° integrated sector (dual polarity, H+V) Antenna Beam Width (Elevation) 2° Bectrical Downtht, 8° Elevation (with Null Fill) Maximum EIRP +42 dBm (or up to maximum allowed by regulation) PHYSICAL Antenna Connection Integrated Sector Array Surge Suppression (with LPU) ENGIODO-4-5: 12 us/50 us, 500 V voltage waveform Recommended external surge suppressor: Cambium Networks Model # C000065L007B Mean Time Between Failure > 40 Years Environmental IP67, IP66 Temperature / Humidity -40°C to +60°C (-40°F to +140°F), 0-95% non-condensing Weight Integrated Approx. 14.2 kg (31 bs) Wind Survival 124 mph / 200 kph Wind Loading - Front Facing @ 90 mph / 144 kph 376N @ 10 mph / 177 kph 562 N @ 124 mph / 200 kph 780 N Dimensions (H-WND) Integrated 52 x 65 x 11 cm (20.3" x 25.7" x 4.4") Power Consumption 70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled) Input Voltage 42.5-59 v DC	8X	256QAM	32			
GPS Synchronization Yes, via Autosync (CMM5 or UGPS) Quality of Service Diffserv QoS LINK BUDGET Antenna Beam Width (Azimuth) 90° integrated sector (dual polarity, H+V) Antenna Beam Width (Elevation) 2° Electrical Downtilt, 8° Elevation (with Null Fill) Maximum EIRP +42 dBm (or up to maximum allowed by regulation) PHYSICAL Antenna Connection Integrated Sector Array Surge Suppression (with LPU) ENGINOU-4-5: 12us/50us, 500 V voltage waveform Recommended external surge suppressor: Cambium Networks Model # C000065L007B Mean Time Between Failure > 40 Years Environmental IP67, IP66 Temperature / Humidity -40°C to +60°C (-40°F to +140°F), 0-95% non-condensing Weight Integrated Approx. 14.2 kg (31 bs) Wind Survival 124 mph / 200 kph Wind Loading - Front Facing @ 90 mph / 144 kph 376N @ 100 mph / 177 kph 562 N @ 124 mph / 200 kph Integrated 52 x 65 x 11 cm (20.3" x 25.7" x 4.4") Power Consumption 70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled) Imput Voltage 42.5-59 V DC	Maximum Deployment Range	Up to 40 miles (64 km)				
Quality of Service Diffserv QoS LINK BUDGET Antenna Beam Width (Azimuth) 90° integrated sector (dual polarity, H+V) Antenna Beam Width (Elevation) 2° Electrical Downtilt. 8° Elevation (with Null Fill) Maximum EIRP 42 dBm (or up to maximum allowed by regulation) PHYSICAL Antenna Connection Integrated Sector Array Surge Suppression (with LPU) ENG1000-4-5: 12us/50us, 500 V voltage waveform Recommended external surge suppressor: Cambium Networks Model # C000065L007B Mean Time Between Failure > 40 Years Environmental P67, IP66 Temperature / Humidity -40°C to +60°C (-40°F to +140°F), 0-95% non-condensing Weight Integrated Approx. 14.2 kg (31 bs) Wind Survival 124 mph / 200 kph 376N Wind Loading - Front Facing @ 90 mph / 144 kph 376N @ 10 mph / 177 kph 562 N @ 124 mph / 200 kph 780 N Dimensions (HxWxD)<	Latency	10 ms, typical				
LINK BUDGET Antenna Beam Width (Azimuth) 90° integrated sector (dual polarity, H+V) Antenna Beam Width (Elevation) 2° Electrical Downtilt. 8° Elevation (with Null Fill) Maximum EIRP +42 dBm (or up to maximum allowed by regulation) PHYSICAL Antenna Connection Integrated Sector Array Surge Suppression (with LPU) ENG1000-4-5: 12us/50us, 500 V voltage waveform Recommended external surge suppressor: Cambium Networks Model # C000065L007B Mean Time Between Failure +40 Years Environmental P67, IP66 Temperature / Humidity +40°C to +60°C (-40°F to +140°F), 0-95% non-condensing Weight Integrated Approx. 14.2 kg (31 bs) Wind Survival 124 mph / 200 kph Wind Loading - Front Facing @ 90 mph / 144 kph 376N @ 110 mph / 177 kph 562 N @ 124 mph / 200 kph 780 N Dimensions (HxWxD) Integrated 52 x 65 x 11 cm (20.3° x 25.7" x 4.4") Power Consumption 70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled) Input Voltage 42.5-59 V DC	GPS Synchronization					
Antenna Beam Width (Azimuth) 90° integrated sector (dual polarity, H+V) Antenna Beam Width (Elevation) 2° Electrical Downtilt, 8° Elevation (with Null Fill) *42 dBm (or up to maximum allowed by regulation) **PHYSICAL** Antenna Connection Integrated Sector Array Surge Suppression (with LPU) EN61000-4-5: 1,2us/50us, 500 V voltage waveform Recommended external surge suppressor: Cambium Networks Model # C000065L007B Mean Time Between Failure *40 Years Environmental IP67, IP66 Temperature / Humidity 40°C to +60°C (-40°F to +140°F), 0-95% non-condensing Weight Integrated Approx. 14.2 kg (31 bs) Wind Survival 124 mph / 200 kph Wind Loading - Front Facing @ 90 mph / 144 kph 376N @ 110 mph / 177 kph \$62 N @ 124 mph / 200 kph Integrated \$2 x 65 x 11 cm (20.3" x 25.7" x 4.4") Power Consumption 70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled) Input Voltage	Quality of Service	Diffserv QoS				
Antenna Beam Width (Elevation) 2º Electrical Downtilt, 8º Elevation (with Null Fill) Maximum EIRP +42 dBm (or up to maximum allowed by regulation) PHYSICAL Antenna Connection Integrated Sector Array Surge Suppression (with LPU) ENG1000-4-5: 1.2us/50us, 500 V voltage waveform Recommended external surge suppressor: Cambium Networks Model # C000065L007B Mean Time Between Failure >40 Years Environmental IP67, IP66 Temperature / Humidity -40°C to +60°C (-40°F to +140°F), 0-95% non-condensing Weight Integrated Approx. 14.2 kg (31 bs) Wind Survival 124 mph / 200 kph Wind Loading - Front Facing @ 90 mph / 144 kph 376N @ 110 mph / 177 kph 562 N @ 124 mph / 200 kph Integrated \$2 x 65 x 11 cm (20.3" x 25.7" x 4.4") Power Consumption 70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled) Input Voltage	LINK BUDGET					
Maximum EIRP +42 dBm (or up to maximum allowed by regulation) PHYSICAL Antenna Connection Integrated Sector Array Surge Suppression (with LPU) EN61000-4-5: 1.2us/50us, 500 V voltage waveform Recommended external surge suppressor: Cambium Networks Model # C000065L007B Mean Time Between Failure > 40 Years Environmental IP67, IP66 Temperature / Humidity -40°C to +60°C (-40°F to +140°F), 0-95% non-condensing Weight Integrated Approx. 14.2 kg (31 bs) Wind Survival 124 mph / 200 kph Wind Loading - Front Facing @ 90 mph / 144 kph 376N @ 110 mph / 177 kph 562 N @ 110 mph / 177 kph 562 N @ 124 mph / 200 kph 780 N Dimensions (HxWxD) Integrated 52 x 65 x 11 cm (20.3" x 25.7" x 4.4") Power Consumption 70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled) Input Voltage 42.5-59 V DC	Antenna Beam Width (Azimuth)	90° integrated sector (dual pol	arity, H+V)			
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Antenna Connection Integrated Sector Array Surge Suppression (with LPU) EN61000-4-5: 1.2us/50us, 500 V voltage waveform Recommended external surge suppressor: Cambium Networks Model # C000065L007B Mean Time Between Failure > 40 Years Environmental IP67, IP66 Temperature / Humidity -40°C to +60°C (-40°F to +140°F), 0-95% non-condensing Weight Integrated Approx. 14.2 kg (31 bs) Wind Survival 124 mph / 200 kph Wind Loading - Front Facing @ 90 mph / 144 kph 376N @ 110 mph / 177 kph 562 N @ 124 mph / 200 kph 780 N Dimensions (HxWxD) Integrated 52 x 65 x 11 cm (20.3" x 25.7" x 4.4") Power Consumption 70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled) Input Voltage 42.5-59 V DC	Maximum EIRP	+42 dBm (or up to maximum al	lowed by regulation)			
Surge Suppression (with LPU) EN61000-4-5: 1.2us/50us, 500 V voltage waveform Recommended external surge suppressor: Cambium Networks Model # C000065L007B Mean Time Between Failure > 40 Years Environmental IP67, IP66 Temperature / Humidity -40°C to +60°C (-40°F to +140°F), 0-95% non-condensing Weight Integrated Approx. 14.2 kg (31 bs) Wind Survival 124 mph / 200 kph Wind Loading - Front Facing @ 90 mph / 144 kph 376N @ 110 mph / 177 kph 562 N @ 124 mph / 200 kph Table May Dimensions (HxWxD) Integrated 52 x 65 x 11 cm (20.3" x 25.7" x 4.4") Power Consumption 70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled) Input Voltage	PHYSICAL					
Recommended external surge suppressor: Cambium Networks Model # C000065L007B Mean Time Between Failure > 40 Years Environmental IP67, IP66 Temperature / Humidity -40°C to +60°C (-40°F to +140°F), 0-95% non-condensing Weight Integrated Approx. 14.2 kg (31 bs) Wind Survival 124 mph / 200 kph Wind Loading - Front Facing @ 90 mph / 144 kph 376N @ 110 mph / 177 kph 562 N @ 124 mph / 200 kph 780 N Dimensions (HxWxD) Integrated 52 x 65 x 11 cm (20.3" x 25.7" x 4.4") Power Consumption 70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled) Input Voltage 42.5-59 V DC	Antenna Connection	Integrated Sector Array				
Environmental IP67, IP66 Temperature / Humidity -40°C to +60°C (-40°F to +140°F), 0-95% non-condensing Weight Integrated Approx. 14.2 kg (31 bs) Wind Survival 124 mph / 200 kph Wind Loading - Front Facing @ 90 mph / 144 kph 376N @ 110 mph / 177 kph 562 N @ 124 mph / 200 kph 780 N Dimensions (HxWxD) Integrated 52 x 65 x 11 cm (20.3" x 25.7" x 4.4") Power Consumption 70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled) Input Voltage 42.5-59 V DC	Surge Suppression (with LPU)					
Temperature / Humidity -40°C to +60°C (-40°F to +140°F), 0-95% non-condensing Weight Integrated Approx. 14.2 kg (31 bs) Wind Survival 124 mph / 200 kph 376N Wind Loading - Front Facing @ 90 mph / 144 kph 376N @ 110 mph / 177 kph 562 N @ 124 mph / 200 kph 780 N Dimensions (HxWxD) Integrated 52 x 65 x 11 cm (20.3" x 25.7" x 4.4") Power Consumption 70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled) Input Voltage 42.5-59 V DC	Mean Time Between Failure	> 40 Years				
Weight Integrated Approx. 14.2 kg (31 bs) Wind Survival 124 mph / 200 kph Wind Loading - Front Facing @ 90 mph / 144 kph 376 N @ 110 mph / 177 kph 562 N @ 124 mph / 200 kph 780 N Dimensions (HxWxD) Integrated 52 x 65 x 11 cm (20.3" x 25.7" x 4.4") Power Consumption 70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled) Input Voltage 42.5-59 V DC	Environmental	IP67, IP66				
Wind Survival 124 mph / 200 kph Wind Loading - Front Facing @ 90 mph / 144 kph 376N @ 110 mph / 177 kph 562 N @ 124 mph / 200 kph 780 N Dimensions (HxWxD) Integrated 52 x 65 x 11 cm (20.3" x 25.7" x 4.4") Power Consumption 70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled) Input Voltage 42.5-59 V DC	Temperature / Humidity	-40°C to +60°C (-40°F to +140°	F), 0-95% non-condensing			
Wind Loading - Front Facing @ 90 mph / 144 kph 376N @ 110 mph / 177 kph 562 N @ 124 mph / 200 kph 780 N Dimensions (HxWxD) Integrated 52 x 65 x 11 cm (20.3" x 25.7" x 4.4") Power Consumption 70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled) Input Voltage 42.5-59 V DC	Weight	Integrated	Approx. 14.2 kg (31 bs)			
@ 110 mph / 177 kph 562 N @ 124 mph / 200 kph 780 N Dimensions (HxWxD) Integrated 52 x 65 x 11 cm (20.3" x 25.7" x 4.4") Power Consumption 70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled) Input Voltage 42.5-59 V DC	Wind Survival	124 mph / 200 kph				
@ 124 mph / 200 kph 780 N Dimensions (HxWxD) Integrated 52 x 65 x 11 cm (20.3" x 25.7" x 4.4") Power Consumption 70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled) Input Voltage 42.5-59 V DC	Wind Loading - Front Facing	@ 90 mph / 144 kph	376N			
Dimensions (HxWxD) Integrated 52 x 65 x 11 cm (20.3" x 25.7" x 4.4") Power Consumption 70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled) Input Voltage 42.5-59 V DC		@ 110 mph / 177 kph	562 N			
Power Consumption 70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled) Input Voltage 42.5-59 V DC		@ 124 mph / 200 kph	780 N			
Input Voltage 42.5-59 V DC	Dimensions (HxWxD)	Integrated	52 x 65 x 11 cm (20.3" x 25.7" x 4.4")			
	Power Consumption	70 W typical, 80 W peak (up to 110 W max with AUX port PoE enabled)				
Mounting Pole mount with included brackets	Input Voltage	42.5-59 V DC				
	Mounting	Pole mount with included brack	rets			

SECURITY		
Encryption	FIPS-197 128-bit AES , 256-bit AES*	
CERTIFICATIONS		
Industry Canada (ISEDC)	109A0-50450M (5.1, 5.2, 5.4, 5.8 GHz)	
FCC ID	QWP-50450M (5.1, 5.2, 5.4, 5.8 GHz)	
CE	EN 301 893 v1.8.1 + EN 301 893 v2.1.1 Clause 4.8 (5.4GHz)	
	EN 302 502 v2.1.1 (5.8 GHz)	

^{*} Indicates Future Software Release