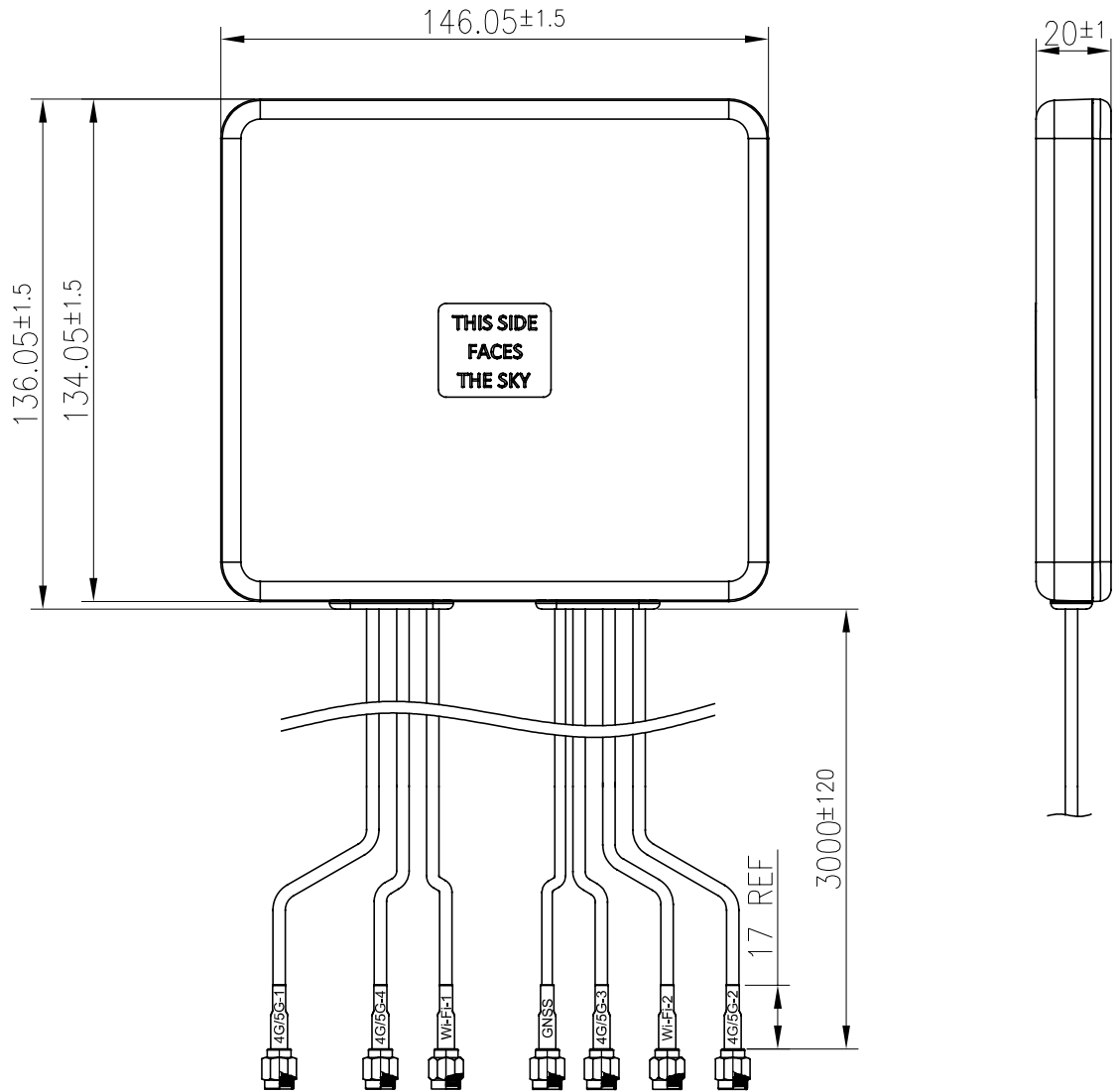# Semtech Antenna – 7-in-1 Flat Panel for XR60

The 7-in-1 Flat Panel antenna solution engineered and certified for AirLink® XR60 fixed/mobility applications.

The antenna features 4x4 MIMO supporting 4G/5G bands covering from 617-6000 MHz, dual band 2.5/5GHz Wi-Fi, and an active L1/L5 GPS/GNSS antenna.

		Specification	
PART NO.			
		6001548 (Black)	
ELECTRICAL DATA			
Frequency Range	4G/5G Elements	617-6000MHz	
	Wi-Fi Elements	2.4/5GHz	
Peak Gain: Isotropic*	4G/5G Elements	617-960MHz 1427-6000MHz	4.25dBi 4.08dBi
	Wi-Fi Elements	2.4GHz 5.15-7.125GHz	0.6dBi 1.37dBi
Isolation*	4G/5G Elements	617-960MHz 1427-6000MHz	≥10dB ≥10dB
	Wi-Fi Elements	2.4/5GHz	>10dB
Typical Efficiency	4G/5G Elements	617-960MHz 1427-6000MHz	32% 22.6%
	Wi-Fi Elements	2.4GHz 5.15-7.125GHz	26.4% 26.2%
Pattern		Omni-directional	
Impedance		50Ω	

*Simulated off a groundplane and does not include cable attenuation

			Specification
GPS/GNSS DATA			
Frequency Range			1559-1612MHz / 1164-1189MHz
Gain: LNA			28dB
Out of Band Rejection			>70dB @ 600-960MHz >65dB @ 1710-3000MHz
Typical Noise Figure			2.8dB
Operating Voltage			1.8 to 5.5V DC
Typical Current			10 ± 3 mA
MECHANICAL DATA			
Dimensions	Height		20 mm
	Length		146.05 mm
	Width		136.05 mm
Operating Temp			-40°C to 85°C
Colour			Black
Ingress Protection			IP67
MOUNTING DATA			
Mounting Type			Adhesive Mount
EXTENSION CABLE DATA			
Cellular Cables	Type		TGC-302
	Length		3m (9.84")
	Termination		SMA (M)
GPS Cable	Type		RG-174
	Length		3m (9.84")
	Termination		SMA (M)
Wi-Fi Cables	Type		TGC-302
	Length		3m (9.84")
	Termination		RP-SMA(M)
ACCESSORIES			
In The Box			Flat Panel antenna, double sided adhesive foam

146.05±1.5

20±1

136.05±1.5

134.05±1.5

THIS SIDE
FACES
THE SKY

3000±120

17 REF

4G/5G-1

4G/5G-4

Wi-Fi-1

GNSS

4G/5G-3

Wi-Fi-2

4G/5G-2

About Semtech

Semtech Corporation (Nasdaq: SMTC) is a high-performance semiconductor, IoT systems and cloud connectivity service provider dedicated to delivering high-quality technology solutions that enable a smarter, more connected and sustainable planet. Our global teams are committed to empowering solution architects and application developers to develop breakthrough products for the infrastructure, industrial and consumer markets.

To learn more about Semtech technology, visit us at **Semtech.com** or follow us on **LinkedIn** or **X.**

semtech.com