

 www.niccomp.com/series/NGPM

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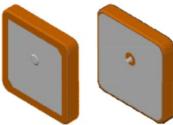
NGPM Series

High Precision Ceramic Patch Antennas

NIC offers high-performance ceramic patch antennas for high-precision positioning applications that utilize multi-band GNSS satellite signals. With a monolithic design and ceramic body, this antenna offers a more compact and affordable alternative to traditional stacked patch antennas.

These antennas are optimized for reception of multiple GNSS bands, including G1, L1, L2, and L5. With the ability to achieve locational accuracy within a few centimeters, its an excellent choice for applications utilizing RTK technology. Plus, the monolithic design simplifies the production process and ensures consistent performance stability.

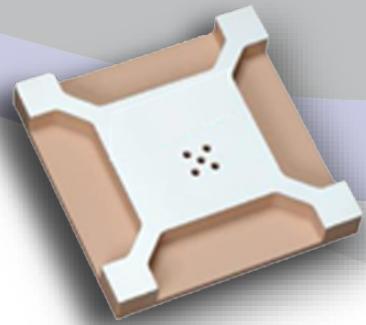
Antenna Characteristic Comparison

Standard Patch	NGPM
 	
<ul style="list-style-type: none"> • Circular Polarization • High Directivity • Meter-Level Positioning • Chip = one Band Only • Stacked = Multiple Bands 	<ul style="list-style-type: none"> • High Precision • GNSS L1 & L2 / L1 & L5 / L1 & L2 & L5 • Monolithic Design • Superior axial-ratio • Low Profile

For Use In real time kinematic (RTK) application including high-end land surveying, autonomous vehicles, and unmanned aerial vehicles for construction and agriculture.



Scan for more info!


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NGPM Standard Part Numbers

Passive High Precision Patch Antenna							
Part Number	Size (mm)	Polarization	G1 1602 MHz	L1 1575.42 MHz	L2 1227.6 MHz	L5 1176.45 MHz	
			Peak Gain (typical)				
NGPM1818PU1R176G3AF	18x18	Circular (RHCP)	2.0 dBi	3.1 dBi	-	-0.8 dBi	
NGPM2525PU1R176G2AF	25x25		-	4.26 dBi	-	3.3 dBi	
NGPM3030DU1R176G2AF	30x30		-	5.0 dBi	-	3.0 dBi	
NGPM4040PU1R176G2AF	40x40		-	5.4 dBi	-	5.4 dBi	
NGPM4040PU1R227G3AF			5.1 dBi	5.8 dBi	5.1 dBi	-	
NGPM5050DU1R176G2AF	50x50		-	5.3 dBi	-	6.3 dBi	
NGPM5050DU1R227G2AF			-	4.5 dBi	6.2 dBi	-	
NGPM5050DU1R575G3AF			-	5.3 dBi	2.3 dBi	2.7 dBi	

Active High Precision Patch Antenna						
Part Number	Size (mm)	Polarization	G1 1602 MHz	L1 1575.42 MHz	L2 1227.6 MHz	L5 1176.45 MHz
			Peak Gain (typical)			
NGPMA2525BU1R176G3X100AF	25x25	Circular (RHCP)	2.0 dBi	2.0 dBi	-	-1.1 dBi
NGPMA4040BU1R176G3X100AF	40x40		4.2 dBi	4.7 dBi	-	2.3 dBi
NGPMA5050BU1R227G3C102HF	50x50		0.69 dBi	2.48 dBi	-11.69 dBi	-

Above parameters are based on standard test fixture and setup. Patch antenna requires tuning based on the ground plane shape and dimensions to achieve optimal performance. Please contact NIC for part number identification with tuning.