

NGCL Series

High Precision Ceramic Patch Antennas

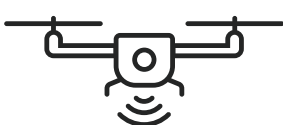
NIC offers high-performance ceramic patch antennas for high-precision positioning applications that utilize multi-band GNSS satellite signals. With a monolithic design and ceramic body, this antenna offers a more compact and affordable alternative to traditional stacked patch antennas.

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, it's an excellent choice for applications utilizing RTK technology. Plus, the monolithic design simplifies the production process and ensures consistent performance stability.

Part Number	Size (mm)	Polarization	G1 1602 MHz	L1 1575.42 MHz	L2 1227.6 MHz	L5 1176.45 MHz
				Peak Gain (typical)		
NGCL1818PU1R176G3AF	18x18	Circular (RHCP)	2.0 dBi	3.1 dBi	-	-0.8 dBi
NGCL2525PU1R176G2AF	25x25		-	4.26 dBi	-	3.3 dBi
NGCL3030DU1R176G2AF	30x30		-	5.0 dBi	-	3.0 dBi
NGCL4040PU1R176G2AF	40x40		-	5.4 dBi	-	5.4 dBi
NGCL4040PU1R227G3AF			5.1 dBi	5.8 dBi	5.1 dBi	-
NGCL5050DU1R176G2AF	50x50		-	5.3 dBi	-	6.3 dBi
NGCL5050DU1R227G2AF			-	4.5 dBi	6.2 dBi	-
NGCL5050DU1R575G3AF			-	5.3 dBi	2.3 dBi	2.7 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.

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



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