PRODUCT PROFILE & CROSS-REFERENCE

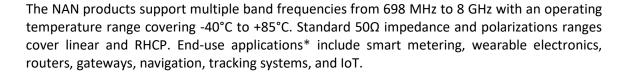


Product Category: RF Communications / Antennas

NAN Series Family

RF Antenna

The NAN family of Antennas covers both internal and external antennas designed for WiFi, Bluetooth, GNSS, ISM, LoRa/Sigfox, UWB, and DECT protocols. The NAN antenna products are available both off the shelf and customized to meet individual customer's requirements.



Antenna				
Series	Туре	Frequency Ranges (MHz)	Protocol	
NAN-P	РСВ	2400 to 5400	LTE, WiFi, Bluetooth,	
NAN-F	FPC	829 to 5400	LTE, WiFi, Bluetooth	
NAN-E	EXTERNAL	698 to 5400	LTE, WiFi, Bluetooth, GNSS, GSM	
NAN-Cx	CHIP	698 to 8000	ISM, Bluetooth, WiFi, LTE, GNSS, UWB, DECT, LoRa/Sigfox	
NAN-Hx	PATCH	1176.45 & 1575.42	GNSS	

٠	NIC Series *Applications - End Use (but not limited to):	
	NAN-P	Connected Home, Fleet Tracking, Gateways,
	NAN-F	GPS, Handheld Devices, Healthcare,
	NAN-E	Inventory Control, IoT, Navigation, Point of
	NAN-Cx	Sale, Radio Systems, Routers, Security,
	NAN-Hx	Sensors, & Smart Meters

Features:

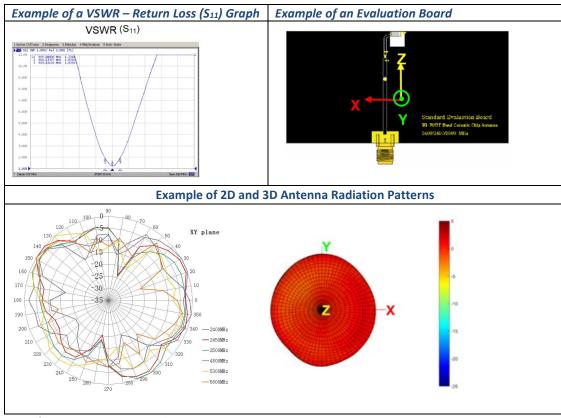
- Chip, FPC, PCB, External and Patch types
- Customizable cable length and connectors
- Multiple SMT case sizes
- Wide Range of Frequencies
- RoHS Compliant

Antenna Specs	Examples	Substitution Guide
Center Frequency (Mhz, Ghz)	2450 MHz, 2.45GHz	Match to design frequency
Impedance (Z)	50 Ohm (Ω, Ohm)	Match to circuit Z →Z←
Polarization	Linear RCHP	⇔ Wider is better
Gain (dbi)	3dBi	↑ Higher is better
Efficiency (%)	35%	↑ Higher is better
Return Loss (db)	turn Loss (db) 10 dB (10% reflection, 90% power into the antenna)	
VSWR	2.0 = same as 10dB return loss	↓ Lower is better

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For performance curve support please contact: tpmg@niccomp.com



Antenna products: www.niccomp.com/products/pType.php?pType=Antennas

Cross-Reference Guide:

NIC Components	Abracon	Taoglas	Molex
NAN-P	ABAR	PC	146187 146220
NAN-F	AFAC AFAG	FXP	105262 146153
NAN-E	AEA	GW	214414
NAN-Cx	ACAG	_LA	206649 146200
NAN-Hx	APAR	GP CGGP	208890 146168



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