



Drop-in Electronic Pattern Steering – No System Changes Required



Built on Notch's proprietary metamaterial technology, MAGIC<sup>®</sup>ELF is a small form factor, interference-mitigating drop-in replacement for omnidirectional antennas that instead provides interference-resilient and other beam steering capabilities.

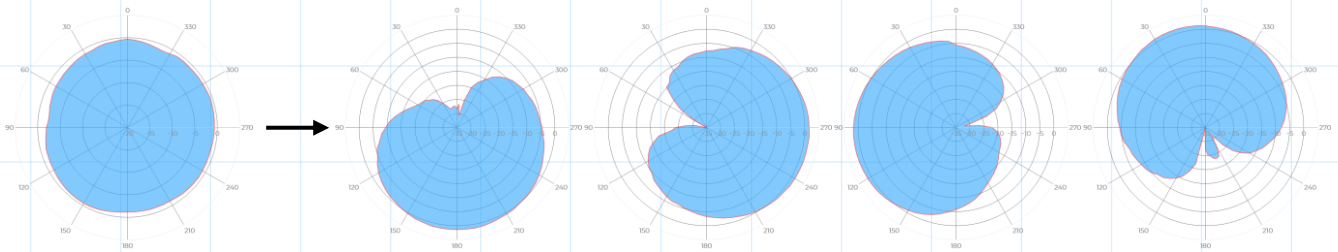
## Key Capabilities

360° electronic steering | Selectable directional, multi-beam & interference-resilient patterns

 Light Weight (<250g) | Low Power (600mW) 

## 360° Steerable Interference-Resilient Patterns

Custom, use-case-specific pattern designs available on request.



## Designed for Size & Weight Constrained Platforms

MAGIC Elf integrates easily with a simple control interface for pattern selection

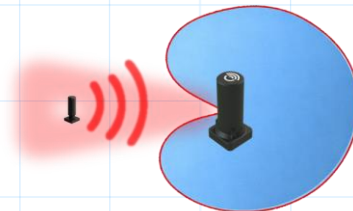
Supports interference-resilient patterns and pattern optimization

Plug-and-Play via UART, XT30 or Ethernet.

## One Technology, Many Applications

MAGIC ELF enables diverse use cases without any changes to your existing radio architecture

Reduce Unintended Reception



Mitigate In-band Interferers



Field Integration Demo

### Details

Frequency Range	2100 MHz – 2600 MHz
Interference Rejection	Available on request under NDA
VSWR	$\leq 2.75$
Polarization	Vertical
Pattern Switching Speed	Open-loop pattern switching (command $\rightarrow$ stable state): ~16 ms (typ.)
Azimuth steering	18 discrete angles (20°)
Height	165 mm (6.49")
Diameter	60 mm (2.36")
Weight	250 g (0.55 lbs.)
Power Consumption	<600mW

### Interfacing

Mounting	1/4 – 20 UNC female (RH); bottom-center; Custom
RF connection	Female SMA
Power	Micro-USB; POE; Custom (5~40V)
Control I/O	Micro-USB; Ethernet; UART; XT30

Radiation pattern data for additional patterns and frequencies available upon request.