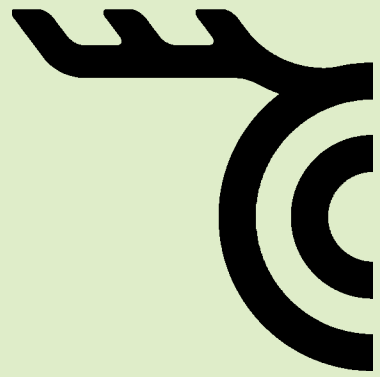


# GPS/GSM – NCS Extra Slim

## New solution from HIRSCHMANN



Reliable network access, call quality and satellite connection are the keys to successfully use communication technologies.

The all new GPS/GSM—NCS Extra Slim antenna from Hirschmann is designed to serve a demanding market. The antenna provides a compact low profile design to fit in most space restricted applications.

The antenna is designed to fulfill ambitious cost targets and high technical requirements serving a wide frequency range from AMPS / GSM 850 up to WLAN.

Outstanding performance for your Telematics and fleet management antenna applications is Hirschmann's goal.

### Features:

- **Extreme Low profile antennas with GPS and Cell-phone**
- Profiled height from 3.9mm to 7.25mm ( 0.15 to 0.29 in. )
- 126 x 54.9mm footprint ( 4.96 x 2.16 in. )
- Low current GPS LNA
- Multiband cell phone (Hepta-band) or WLAN / Bluetooth
- Adhesive mount (top or bottom)
- Clear indication of mounting direction
- Customization of cable lengths, types and connectors possible

### Benefits:

- **Combination Antenna**
- **WLAN / Bluetooth**
- **Low Profile**
- **Compact Design**
- **High Performance**
- **Low Cost**



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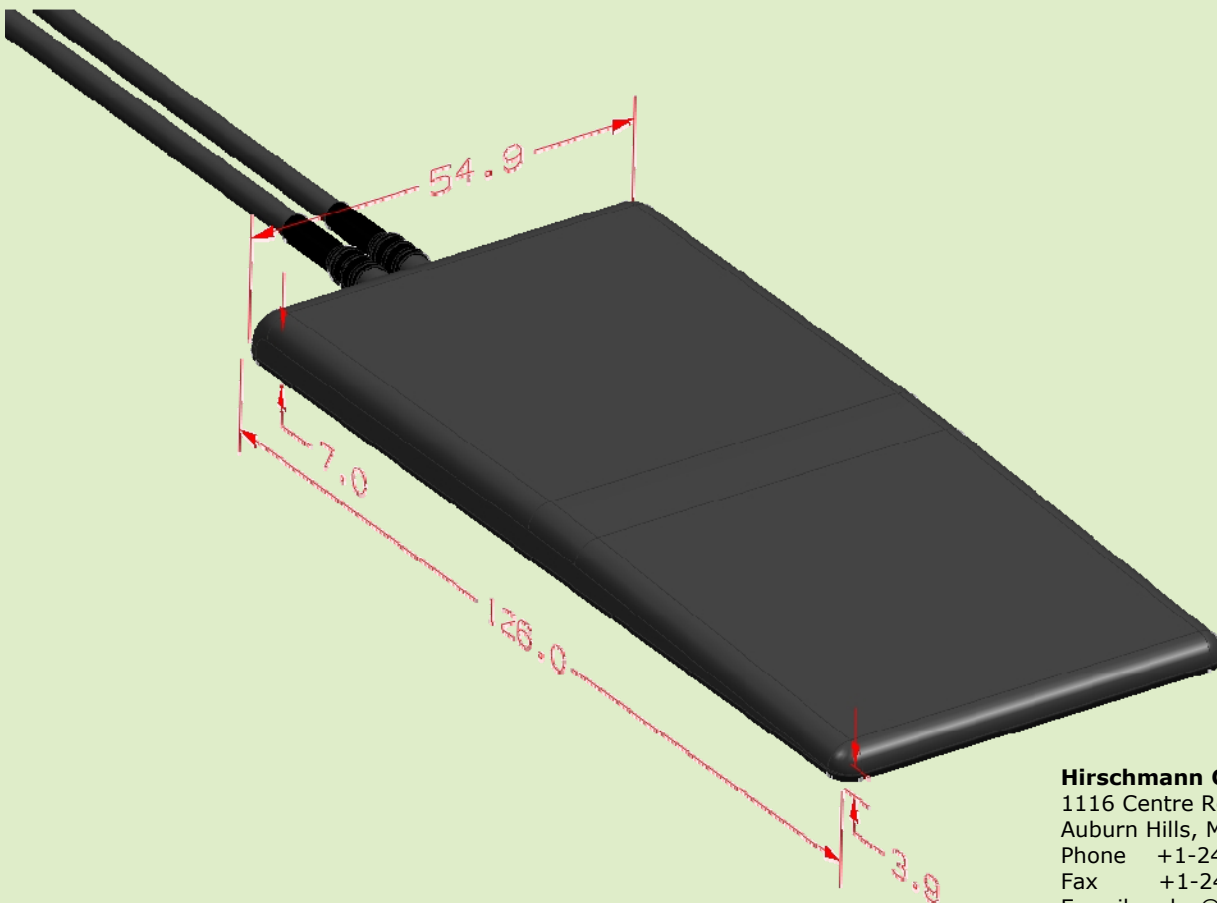
## Technical data

Dimensions / Dimensiones	126mm x 54.9mm x 7.25mm / 4.96 x 2.16 x 0.29
Weight / Peso	50 g / 1.76 oz.
Temperature range / Rango de Temperatura	-40°C to +85°C / -40°F to +185°F
Protection class / Índice de protección	IP66 (acc. IEC 60529)
<b>Cellular / WLAN</b>	
Frequency range / Rango de frecuencia	AMPS / GSM 850: 824 - 894 MHz GSM 900: 880 - 960 MHz GSM 1800: 1710 - 1880 MHz GSM 1900: 1850 - 1990 MHz UMTS: 1920 - 2170 MHz WLAN / Bluetooth: 2400 - 2484 MHz
Impedance / Impedancia	50 Ohm
Gain / Ganancia	3 dBi for AMPS/CDMA800/GSM900
VSWR / Razón de onda estacionaria	4 dBi for GSM1800/PCS/CDMA1800/UMTS/WLAN ≤ 2.0
Load capacity / Capacidad de carga max.	10 W pulsed (acc. GSM standard)
<b>GPS</b>	
Frequency range / Rango de frecuencia	1.57542 GHz ± 1.023 MHz, (L1-band)
Impedance / Impedancia	50 Ohm
Polarization / Polarización	RHC
Gain / Ganancia	1 dBic min. <sup>1</sup>
Axial ratio / Proporción axial	4dB max at zenith
Amplification / Amplificación	26 ± 2 dB typ.
Noise figure (50 Ohm) / Factor de ruido (50 Ohm)	≤ 1.4 dB typ.
Voltage supply / Suministro de voltaje	2.7 V - 5.5 VDC
Current consumption / Consumo de corriente	≤ 13 mA typ. 10mA (max. 13mA)

<sup>1</sup>Other cable lengths available upon request

<sup>2</sup>Other configurations available upon request

<sup>3</sup>dBic: Referenced to an isotropic radiator, circular polarization



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