

ZN28100 — Antenna Impedance Matcher

PRODUCT DATASHEET | 150 kHz–6.2 MHz | ZHINAN

Artificial-antenna network	High-input-impedance matcher	LW / MW / SW coverage
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1. Product Overview

The ZN28100 contains an artificial-antenna network and an impedance-matching unit. The two sections may be used together, or the matching section may be used alone, to interface a vehicle receiving antenna with 50 Ω measurement equipment.

2. Technical Specifications

Parameter	Specification
Frequency range	150 kHz–6.2 MHz
Artificial-network input impedance	50 Ω
Matcher input impedance	>100 k Ω
Output impedance	50 Ω ; VSWR <1.4
Gain accuracy	± 0.5 dB across LW / MW / SW ranges
1 dB compression point	>60 dB μ V at the fundamental output
Dynamic range	>60 dB
Power consumption	Approx. 4 W
Weight	Approx. 4 kg

3. Typical Applications

- Vehicle receiving-antenna and receiver-chain measurements
- Artificial-antenna network simulation
- High-impedance to 50 Ω RF measurement matching

4. Standard Package

Item	Quantity / description
User manual	1
Power cord	1
Coaxial cable, 1 m	1
Coaxial cable, 0.2 m	1

5. Operating conditions

Item	Value
Ambient temperature	0–40 °C
Relative humidity	20–90% RH
Atmospheric pressure	86–106 kPa
Power supply	220 V AC ±10%, 50 Hz ±5%
Warm-up time	15 min
Continuous operation	>8 h
Orientation	Vertical, following the front-panel direction
Dimensions	228 × 88 × 300 mm

Product Image

