

## Overview

The GT1-MK2 is an isolation transformer that reduces locally generated noise when installed between an antenna and a receiver. By breaking the ground loop between the antenna system and the receiver, it can reduce interference from switching power supplies, computers, and electrical devices. It also helps protect the receiver from electrostatic discharge on the antenna line and provides wideband coverage from 100 kHz to 400 MHz, including longwave, shortwave and airband.

## Main features

- Reduces or suppresses ground-loop-induced noise.
- Especially useful in PC-controlled and SDR receiver environments.
- Strong performance in the LW, MW, SW ranges and broad usable coverage up to military airband.
- Helps protect the receiver from electrostatic discharge on the antenna line.
- Wide frequency coverage from 100 kHz to 400 MHz.

## Operating principle

When a receiving station does not have a good RF ground, the antenna ground and receiver ground can sit at different electrical potentials. This creates a ground loop that allows noise from connected equipment to travel from the antenna into the receiver. The effect is often more noticeable in stations that use computers, switching power supplies and are near electrical devices.

The GT1-MK2 interrupts that path through galvanic isolation, filtering noise before it reaches the receiver antenna input. The GT1-MK2 is designed to reduce noise caused by ground loops. However, it will not remove every kind of interference.

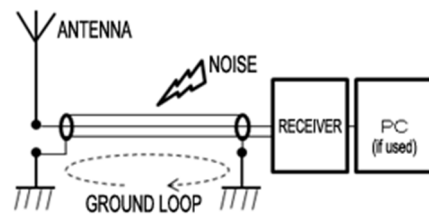
## Installation

- Connect the antenna cable to the BNC connector marked ANT.
- Connect the connector marked RX directly to the receiver antenna input.
- If needed, use a short 10 to 20 cm BNC coaxial cable (not supplied) between the receiver and the GT1-MK2.
- Compare the received noise floor with and without the GT1-MK2 to confirm the benefit in your installation.

**Receive only - do not transmit through the GT1-MK2.**



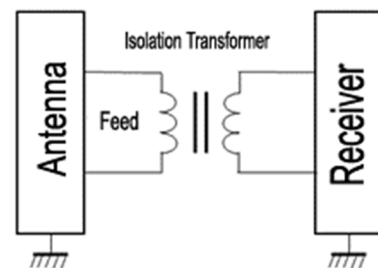
Product photo



Ground-loop example



Installed view



Isolation concept

## Specifications

Product	GT1-MK2 Galvanic Isolation Transformer
Frequency coverage	100 kHz to 400 MHz
Insertion loss	Up to 3 dB
Input/output impedance	50 ohms, unbalanced
Connector type	BNC female (antenna side); BNC male (receiver side)
Box size	40 x 30 x 20 mm
Weight	38 g