

ENTERPRISE 25

GaAs-FET Antenna 25MHz - 2.5GHz



- Active Receiving Antenna
- Wide range, 25MHz - 2.5GHz
- High input sensitivity to pick up weak signals
- Gain up to 15dB peak (Depending on frequency)
- Low noise to signal ratio
- No self oscillating signals
- Maximum performance on often used bands
- Protection:

Safety circuit against static energy

Safety circuit against too high voltage supply

Safety circuit against reversed polarity

Safety circuit against shortening in coax or plugs

- Small size, great performance
- Water, weather and UV-proof
- 1 year guarantee from factory

Made in The Netherlands
by X-Electronics

Distribution FRANCE

CB+

www.cbplus.com

AGAINST EXTRA COST
AN INTERFACE WITH
N-CONNECTOR IS
OPTIONAL AVAILABLE

Price:



INTRODUCTION

The ENTERPRISE 25 is an active antenna, small in size, but great in performance. Using the ENTERPRISE 25 will allow each receiver listener to have professional reception!

From the outside the ENTERPRISE 25 is a tube, around 2,8 cm diameter and 77 cm long, made from glass fibre. Inside this tube is the amplifying circuit.

The antenna is water, weather and UV-proof and constructed very well. Because of the small size it can easily be placed on a roof, a balcony or even on a caravan.

The brackets which come with the antenna make mounting easy.

A protection circuit using very special Schottky-diodes protects the antenna against damage as a result of too high static energy caused by strike of lightning in the surrounding of the antenna and cable. It is impossible to protect the antenna against damage as a result of direct strike by lightning.

Damage by too high static energy can also occur in case the antenna is positioned too close to a transmitting antenna.

Functioning of the ENTERPRISE 25 Active Antenna

Because of the high sensitivity the antenna will pick up weak signals. These signals are offered to the amplifying circuit inside the ENTERPRISE 25.

The use of high quality GaAs-FET-Mmics in the amplifying section of the antenna will amplify signals even up to 2.5GHz.

Because of maximum adjustment between antenna section and electronic circuits the result is equal sensitivity in the frequency range from 25MHz - 2.5GHz.

The design of the antenna guarantees maximum performance on

often used bands like 6 mtr, 4 mtr, 2 mtr, 70 cm, 23 cm, 13 cm, 900MHz, 1300MHz, 1600MHz.

These are the frequencies where the most interesting communication takes place. Most of the time Broadcast Radio and TV stations have such a strong signal that there is no need for amplifying these signals. The use of the ENTERPRISE 25 will in many cases result in weaker signals of horizontal transmitting broadcast stations for your receiver. That is good news for the more interesting and weaker signals you want to receive.

The amplified signal runs through the HF/DC-Interface into the receiver.

The advantages of the ENTERPRISE 25:

- * because of the high input sensitivity and the low noise of the antenna you will be able to detect weak signals.
- * the amplifying of the signal is better than the loss of the coax cable.

The result is that weak signals now can reach the receiver!

Delivery of the HF/DC-Interface is included with the antenna. The interface is a HF-closed metal casing that is placed between the antenna and the receiver.

The interface gives power to the antenna and sends the received signal to the receiver.

The interface has BNC-Male to connect directly to a receiver with BNC-Female antenna connector.

The coax cable between the antenna and the interface box needs N-Male to connect to the antenna and BNC-Male to connect to the interface.

For the power line connection a 2.5mm jack plug is used to deliver the 12VDC input.

If possible mount the interface direct to the receiver to prevent loss of signals.

Frequency	: 25MHz - 2.5GHz
Gain (relative)	: +/- 12dB (25MHz - 2.5GHz)
Polarisation	: Vertical / Omnidirectional
Noise Figure	: +/- 2dB / 100MHz 4dB / 1500MHz 6dB / 1800MHz 3rd interception point >30dB
Protection of Antenna	: ● Safety circuit to protect against damage from static energy as a result of lightning in close surrounding of antenna or cable. Does not protect against direct, or close strike ● At input, protection by very special Schottky-diodes to protect against damage as a result of too strong HF-signals. +350mV/EMK at reaction time of 5ns.
Protection of HF/DC Interface	: ● Protection against reversed polarity. ● Protection against shortening ● Protection against too high consumption of current as a result of shortening in coax cable or plugs. ● Protection against too high voltage, max 14.9V
Impedance	: 50 Ω
Connectors	: ● Antenna, N-connector Female, 50 Ω. ● HF/DC-Interface, BNC-Male and BNC-Female, 50 Ω.
Power Source HF/DC-Interface	: ● 8VDC to maximum 14.9VDC, minus to ground. ● 8VDC for minimum receiving. ● 12VDC - 14.9VDC for maximum receiving ● European 12VDC Adapter is included !
Current	: +/- 30mA
Weight	: 0,5Kg (Including mounting materials, radials 0,9kg)
Dimensions	: ● Length 77cm (Including mounting pipe 110cm) ● Diameter 2,8cm (Including radials 13,6cm)
Guarantee	: 1 year by manufacturer