

**ENLN4055 Base Station/
Repeater Housing Kit**



**Stay In Touch
On The Move**

"...versatility and flexibility supplied as standard..."



▲ The ENLN4055 standard wall-mount base station/repeater housing kit



▲ The ENLN4057 conversion kit adapts the standard ENLN4055 housing to shelf or bench mounted applications.



▲ The ENLN4058 conversion kit adapts the standard ENLN4055 to 19" (4U) rack mounting applications.

“...Motorola: your assurance of quality...”

The ENLN4055 Base Station/Repeater Housing Kit has been developed to offer a robust, reliable solution to your communications needs. Like all Motorola products, the housing kit has passed our unique Accelerated Life Test, which simulates five years' hard use in the field.

As the world's leading manufacturer of mobile communications equipment, Motorola is dedicated to excellence in its' products and level of customer support. That commitment is shared by our Authorised Motorola Dealers and Distributors, who will provide advice on the optimum configuration for your needs and will supply, install and service your Motorola two-way radio system.

“...a high quality solution to your low cost communications needs...”

The Motorola ENLN4055 is a housing kit that enables standard Motorola GM350 or GM950 mobile two-way radios to be used as a base station or repeater.

The primary functions of the base station/repeater are;

- to extend the communications coverage of your mobile workforce by providing repeater functionality
- to provide a communications interface between mobile radio users and office-based staff using desktop consoles such as the Motorola Centro Plus

“...the comprehensive range of features delivers the benefits your organisation demands...”

The choice of Controller Module, which acts as the “brains” of the repeater/base station, determines the functionality of the overall system;

The Motorola ENLN4056 advanced Tone and Repeater Interface Control Kit (TRICK) delivers sophisticated features that are easy to use;

- Full Tone Remote Control (TRC) capability enables communication with remote desktop consoles using 2 or 4 wire lines
- Built-in Select V (5 tone) signalling for over-air control of repeater functions
- Talkthrough operation for continued repeater operation in the event of wire line failure
- Wildcard outputs to allow control of remote equipment
- Repeater Knock-Down timer
- Facility socket to interface to external equipment
- Fully programmable using a Windows-based RSS package
- Alarm notification

The Motorola ELN3948 basic Repeater Interface Control Kit (RICK) is ideally suited to free-running repeater applications;

- Low cost
- Transparent operation





▲ To enable remote control of the repeater/base station over a fixed wireline, use Motorola Centro plus desktop controllers in conjunction with an ENLN4056 Tone and Repeater Interface Control kit.

"...the modular design philosophy means that the housing kit can be easily customised to meet your specific communication needs..."

The standard ENLN4055 wall-mount housing kit consists of;

- Robust metal case
- Integral power supply with battery revert capability
- Comprehensive cable kit (including fixings)
- Internal sub-assembly for convenient mounting of mobile radios and a controller module
- Fan to ensure impressive duty cycle capability

The housing has been designed to accommodate all of the following;

- One or two radios
- Controller module
- A band reject duplexer to facilitate single antenna working
- A single-stage isolator (with harmonics filter) to ensure compliance with communal site TX intermodulation requirements

Specifications

GENERAL

Frequency Range:
66-88, 136-174,
403-470 MHz

Channel Spacing:
12.5kHz, 25 kHz

Typical Weight:
14kg (housing containing
two radios, controller,
duplexer, isolator and
harmonics filter)

Frequency Stability:
±5 ppm (MB & VHF)
±2 ppm (UHF)

Power Supply:
Input voltage: 95 - 255V AC,
12V DC

Battery revert and battery
trickle charge capability

Alarm notification of 'Mains
Failure' and 'Battery Low'
conditions

Operating Temperature:
-25°C to +55°C

Dimensions:
Standard ENLN4055 wall
mount: 435x165x320

With ENLN4057 shelf mount
kit (including feet):
435x170x320

With ENLN4058 rack mount
kit (including handles)
485x177x365

TRANSMITTER

Power Output:
25W at radio antenna
connector. (Power output will
be reduced by insertion loss
if duplexer or isolator is
fitted.) Typically power is
reduced by 1-4dB

Duty Cycle:
100%@25W < = 30°C

Adjacent Channel Power:
>-60dB (12.5kHz)
>-70dB (25 kHz)

Hum and Noise (CCITT):
>40dB

**Conducted/Radiated
Emission:**
<0.25 µ W (0.1 to 1 GHz),
<2 µ W (1 to 4 GHz)

Intermodulation:
40dB standard
70dB with isolator

RECEIVER

Sensitivity (12dB SINAD):
<0.35 µV or better

Adjacent Channel Select:
>60dB (12.5 kHz)
>70dB (25 kHz)

**Conducted/Radiated
Emission:**

<2nW (0.1 to 1 GHz),
<20nW (1 to 4 GHz)

Intermodulation:
>70dB

Hum and Noise (CCITT):
>40dB

Contact your local Authorised Motorola Dealer to find out more about the ENLN4055 and how two-way radio will benefit your organisation.

Your Authorised Motorola Dealer is:



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