

Model AWC-4045



FEATURES

Aluminum Extruded Enclosure

Desk Top Model (standard) 4" W x 8.5" L x 2 " D

Manufacturers Handset Cradle
Interface Cables to User Provided handset
Interface Cables provide to LMR radio
External DC UL approved power supply
12 month replacement warranty

Optional OEM Housings Available

Vehicle Mount / Rack Mount OEM Variations

Programmable Operating Parameters

Noise Compensating VOX Controls
Hang time 1/2 sec to 2 1/2 seconds
Audio Delay Selectable in 10 millisecond increments
Next-Link Inter-System Connect Verification Tones

Transformer Input / Output Levels
Balanced / Unbalanced 600 ohms
PTT Dry Contact
Frequency Response 100 Hz to 3200 Hz
Operating Temperature -30C to +65C

INTRODUCTION

The **Next-Link** product is for use with an existing Land Mobile Radio (LMR) system and an existing Cellular based Push to Talk Direct Connect System.

It is intended as a **subscriber addition** to those systems using the Direct Connect "Push to Talk" feature. Many systems use a combination of Nextel™ (or other) "Push to Talk" equipped Handsets along with a Two Way Portable Radio System. Both of these devices are used for communications, but they are not able to cross-communicate with each other.

The AWC-4045 will provide the interface between a Nextel™ (or any other type of PTT Handset) and commercial two-way radio systems. This would enable a person carrying a Nextel™ Hand Set to talk to personnel using Portable Radios, and visa versa.

American Wireless Inc with over 40 years of experience in providing technical solutions, is a leader in the Radio Communications Industry

Manufactured by
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STANDARD FEATURES

Model AWC-4045

Four digit DTMF Decoder
Aluminum Extruded Desk Top Model 4" W x 8.5" L x 2 " D
Manufacturers Handset Cradle (Must specify with order)
Interface Cables to User Provided handset Product* and user provided LMR radio (must specify with order)
External DC UL approved power supply
12 month replacement warranty

* For optimum performance; Console Handset must be capable of default addressing in the PTT mode.

Accessories and Options

External DC UPS Rechargeable battery pack 12 hour (AWC4077)

APPLICATION NOTES**System Operation****Quiescent State**

- The Cellular based PTT handset at the Next-Link console is in Receive mode. The Radio Group PTT address is pre-programmed and waiting for a call to activate.

Nextel – Control / Land Mobile Radio base in slave mode.

- The Cellular based PTT handset subscriber initiates a call to the Radio Group PTT address programmed in the Next-Link Nextel handset.
- Next-Link uses a specially packaged unique VOX circuit which initiates a PTT to the Land Mobile Radio control base station.
- Two-Way communication is activated.
- Absence of signal (timer programmed on the Next-Link) will disconnect, terminating the connection and return the Nextel handset to its quiescent mode.

Land Mobile Radio Control

To enable Land Mobile Radio control, a control function has to be present at the Next-Link initiated by the LMR subscriber unit. This control function may originate from the LMR portable radio in one of several forms.

- The LMR Subscriber has DTMF keypad encoder. (The Next-Link has a DTMF decoder.)
- The LMR Subscriber has an external signal circuit enabled. An example would be a "Push Button" on the portable which sends a signal, tone, digital etc. to the base station which has the capability to decode and provide a 'turn on' function.
- The Next-Link time out timer (TOT) will handle the disconnect.

Closures may be a dry contact closure or a Hi (+3v dc and Lo -3v dc)
This function may or may not be available in all brands of radios.

This function may require Radio Service Software (RSS) programming on the portables and base station.

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