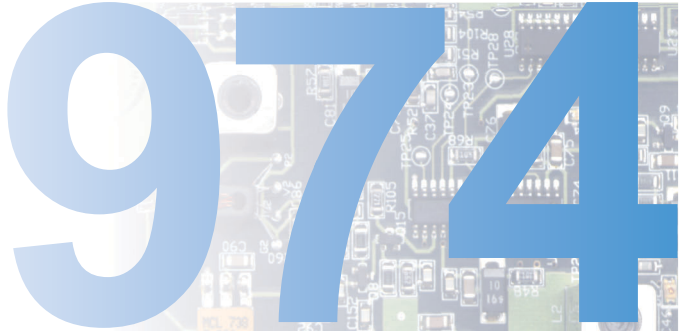


974 HF Integration System

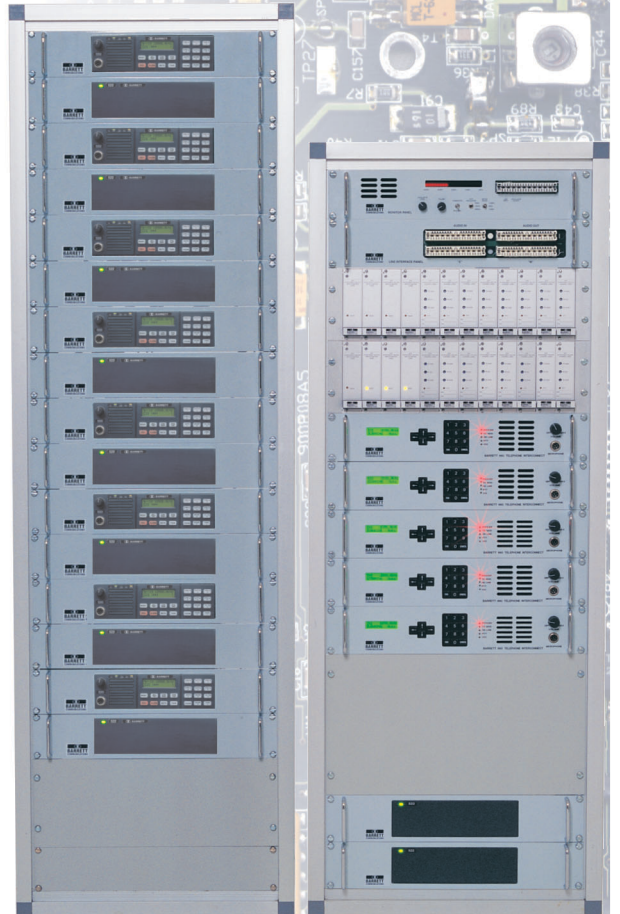
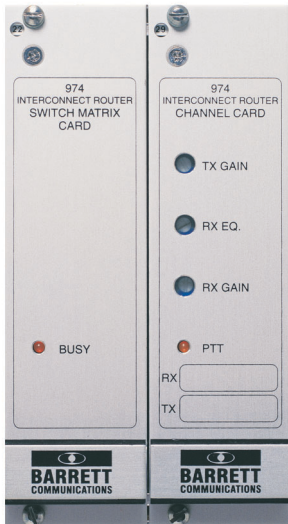
The Barrett 974 system is designed to make major HF turnkey projects simple to design, install and maintain. Whilst the main emphasis of the 974 system is towards fully automated HF telephone interconnected base stations, using multiple frequencies, with remote transmitters and receivers, the sub-assemblies that comprise the system can be used to manage many other configurations.

Barrett Communications, using 974 sub-assemblies, can design turnkey systems tailored to exact client requirements.



Features that can be offered within turnkey systems include :-

- CCIR 493-2 standard digital selective call systems
- HF Vehicle tracking
- HF Fax, data and E-mail
- HF Automatic telephone interconnect
- ICAO standard selective call systems
- Remote transmitters and receivers
- Microwave, VHF, UHF or landline links to remote sites



BCB97400/3

974 HF Integration System

BC97400 HF Radio Telephone Interconnect Router

The BC97400 is a 3U high EUROCARD rack containing 12 modules. The first 4 modules are interconnect Switch Matrix Cards that allows the interconnect connected to each card to select individual receive and transmit audios from up to 8 receivers or transmitters.

The Switch Matrix Card also provides a busy signal to the interconnect, indicating which channels are in use by any of the other interconnects.

The remaining 8 cards in the sub rack are Channel Cards. Each Channel Card has the facilities to input one receiver audio and one transmitter audio to the interconnect router bus. Jumpers are used on the card to allocate these receiver and transmitter audio's individual channel positions. In addition the Channel Card provides level trim for the transmitter audio going to line and level and slope trim for incoming receiver audio from line.

BC97403 Line Interface Panel

The line interface panel is a 2U physical routing panel using IDC connectors that allows easy interconnection of the Interconnect Router (BC97400) to either local or remote transmitters and receivers via microwave or landline

systems. Krone connectors on the front panel enable monitoring of line levels or injection of test tones using standard Krone test cords in conjunction with the Monitor panel P/N BC97505

BC97405 Monitor Panel

The Barrett 974 monitor panel is a 2U rack mount unit consisting of a line monitor amplifier, line level measuring display which covers a 60dB range and test tone generator, providing three tones 400Hz, 1kHz and 2.6kHz. Test lead connection to the unit is made by a standard Krone connector on the panel front using standard Krone test leads. The panel circuitry is fully isolated from chassis ground and will run with an input voltage from 12VDC to 48VDC.

BCA90037 Line Interface Module

The line interface module plugs into the auxiliary connector of the either 550/950 transceiver or 550/950 receiver and is used to provide an adjustable interface to 600ohm lines.

The unit provides incoming transmit audio level trim, slope adjustment, receiver output level trim, and balancing for receiver audio going to line. An opto-coupler is provided to interface various E&M signals for PTT use.

Specifications

Input/Output

Landline / Link Audio In	Balanced Audio 600 ohm, with level trim and equalization
Landline / Link Audio Out	Balanced Audio 600 ohm, with level trim.
PTT / Cross Mute Signalling	Link 'E' & 'M' or Chailo keying compatible

General

Power	+13.8VDC , 800mA (dependant on configuration)
Hardware	3U 19" Rack Unit Maximum 4 Switch Matrix Cards Maximum 8 Channel Cards
Configuration	1 x 3U 974 Interconnect Router provides interface for up to 4 x 660 / 960 interconnects and up to 8 channels. 2 x 3U 974 Interconnect Router with the bus interconnect cable BC97401 can provide either interface for up to eight 660 / 960 interconnects with up to 8 channels or interface to four 660 / 960 interconnects with 16 channels.

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Dealer Stamp

