



Dual Tone Multiple Frequency, (DTMF), is a popular and reliable signalling method used for channel change and other simple control functions. BISS Tech has developed the 970DD as a “building block” to provide an easy interface for equipment requiring DTMF control. The 970DD has been specifically designed to easily interface with the BISS Tech 900 series of radio control modules, but is flexible enough to be used as a stand alone unit for custom projects.

For remote channel change on two-way radios, the 970DD is complemented by the BISS Tech 960CSD communications console which provides DTMF encoding and acknowledgment display. By using the BISS Tech 900 series of interface boxes, both land line and local control is simple to implement.

Channel control from the “field” is possible using handheld radios or mobiles fitted with DTMF keypads. However control is not limited to “channel changing”, up to twelve individual outputs can be controlled from any source of DTMF signalling thus making a simple low cost telemetry system.

970DD Features:

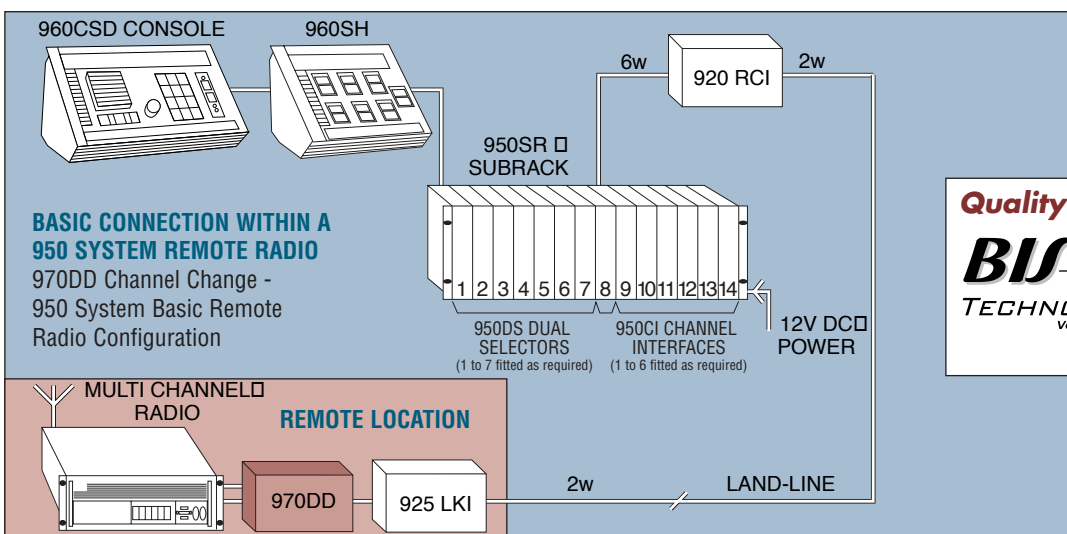
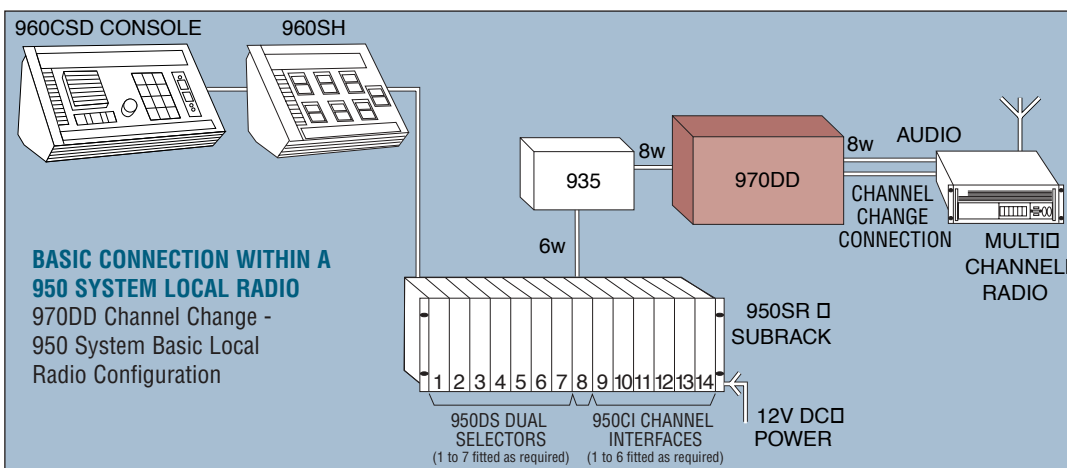
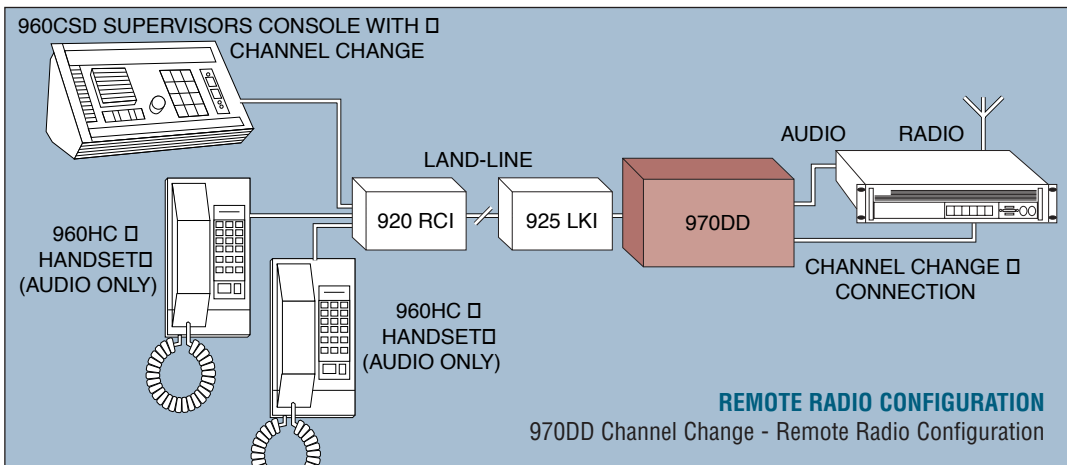
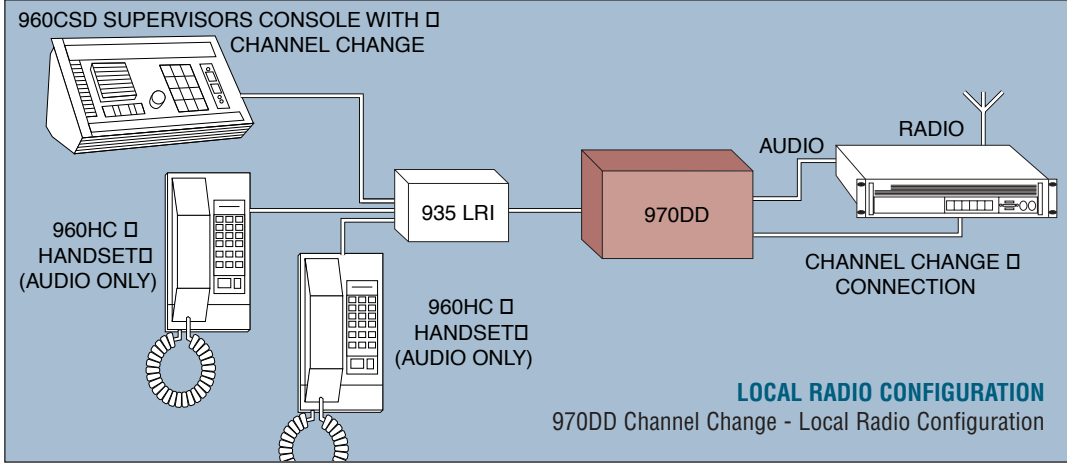
- Controls 12 open collector outputs from DTMF signalling standard.
- Connects to BISS Tech 900 series interfaces for local or landline control.
- Compatible with the BISS Tech 960CSD communications console for remote channel change.

- Digital output can be selected as BCD or BINARY.
- Auto acknowledgment can be selected for confirmation of decoding.
- All outputs can be inverted using a single control line.

Specifications:

- Decodes up to 3 DTMF digits in either BCD or BINARY. (Start character is a “*”, end character is a “#”.)
- Automatic acknowledgment of valid string can be selected from option switch. The state of the outputs can be interrogated by sending a “*#” sequence.
- 12 open collector outputs are provided via a 15-way “D” type connector, the sense of these can be inverted by the internal option switch or by an external logic level.
- Land-line/local/link radio interface: 8 way US modular connector with audio I/O, mute, PTT and 12 volts supply. The sense of the PTT can be high or low. This connection is used for control of the transceiver via landline using the BISS Tech 900 series interfaces, or from link radio, see accompanying diagram.
- Base radio interface: 8 way US modular connector with audio I/O, mute, PTT and 12 volts supply. The sense of the PTT can be active high or low. (The transceiver being controlled by the 970DD plugs into this port.)
- Power requirements: 11-15 VDC @ 100mA from base radio equipment.
- Dimensions: 130 x 67 x 46 mm.
- Construction: Black plastic ABS box.

TYPICAL EQUIPMENT CONFIGURATIONS



970DD Channel Change Decoder

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