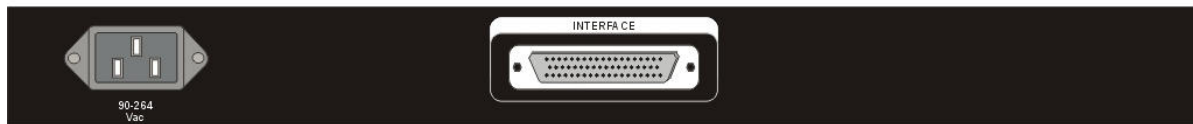
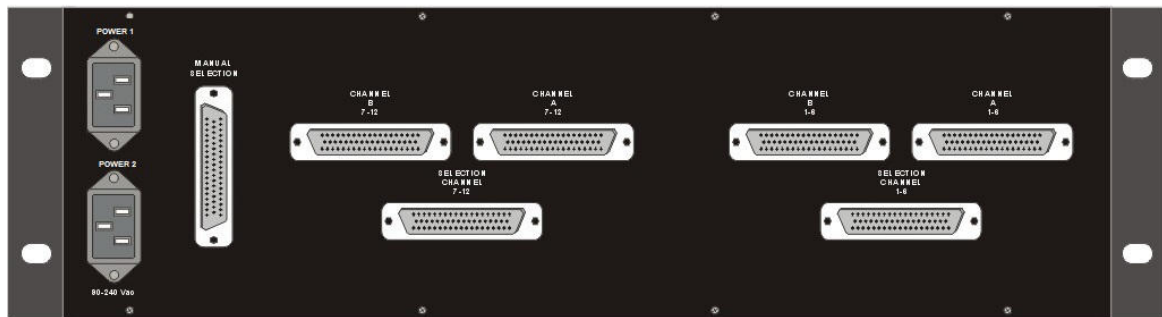


Manual Switching System for radio, data and telephone channels



USL-13



INTRODUCTION

The switching units enable selection of an output from two possible inputs. These switching systems perform switching between a numbers of input wires (system A or B) with output wires. The wires which are switched can be of a very varied nature, including, for example, ground to air communication systems in which audio and PTT signals are switched or communications systems at 64Kbps with V.35 interface.

Nexcon Telecomunicaciones provides the system switching system consisting of a Local Selection/Signalling Unit (USL-13) and a remote command and control units, manual with CGUSL-10 or SNMP with GUSL-13.

FUNCTIONAL SPECIFICATION

The selection/signaling device USL-13 is the equipment responsible for selecting the output system from two input systems (A and B). The USL2-1/10 consists of 12 independent cards (channels), which enable switching a maximum of 8 wires. Each card indicates the selected system through LEDs on the front.

Switching can be performed locally or remotely. In local mode, each card has a switch on the front for that function. Remote selection can be performed by means of the manual selection unit CGUSL-10 or through a LAN management card (GUSL-13)

All devices are prepared for installation in racks measuring 19 "and allow power from AC or DC sources in redundancy configuration.

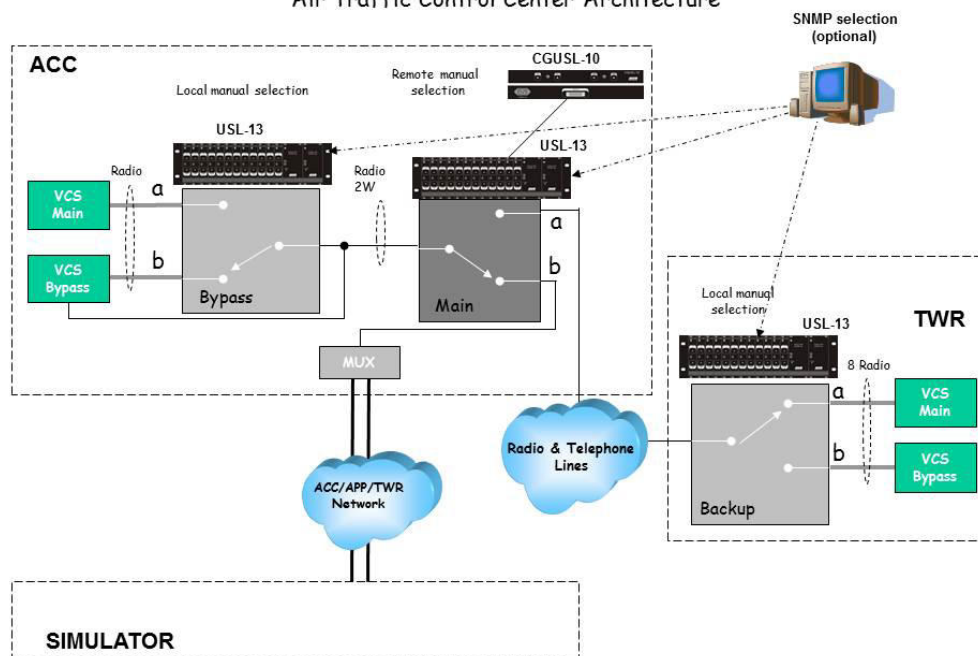
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Switching System for radio, data and telephone channels



USL-13

Air Traffic Control Center Architecture



MECHANICAL AND ELECTRICAL CHARACTERISTICS

USL-13. Switching cards

- Up to 12 cards per rack without management card. With management card up to 10 cards
- 8 wire switching between input (system A or B) and output.
- Indication, on each card, of the selected system.
- The device can be put into bypass in response to failure (male connectors on the A/B system inputs, and female on the output).
- Internal bridges to select a system at output in response to a power failure.
- System selector switch on the front.

GUSL-13. Management card (optional)

- Remote selection LAN Management Card. LAN 10/100Base-T with SNMP management

FUSL-13. Power supply cards

- 1+1 Redundant Power Supplies, AC and DC, or AC plus DC.

CGUSL-10 (Manual Selection System, optional)

- System A or B selector switch.
- LOCAL/REMOTE selector switch (optional)
- Individual selection by rack or general
- AC or DC power.

PHYSICAL CHARACTERISTICS

- 19-inch rack mountable 3U form factor.
- Double XLR or AC

- Four SUBD-50 Male connectors for SYSTEM A and SYSTEM B (channels 1-6 and 7-12).
- Two SUBD-50 Female connectors for OUTPUT (channels 1-6 and 7-12).
- SUBD-50 Male connector for connection to the CGUSL-02.

USL-13 cards

- 12 or 10 individual switching cards.
- LED selection indicators (SYSTEM A or B).
- LED Test button on power cards.

GUSL-13 card

- LAN activity and 10/100 indication.
- SUBD-9 female configuration in console mode.
- Indication local or remote selection.

FUSL-13 card

- Power switch and fuse
- Power and fail indication
- TEST LAMP push button

CGUSL-10

Front

- System A or B selector switch.
- Local or remote selector switch (optional)

Back

- XLR/AC, power switch and fuse.
- SUBD-50 Male connector for connection to the USL-13.

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