



DS-Micro Switch Equipment

Key Features

- 8 port mini switch
- On card selective calling encode / decode
- On card tone remote or M80 emulation
- Intuitive PC configuration tool
- Multiple receiver selection or voting option available
- TETRA PEI interface option



In Brief

The DS-Micro switch is a compact matrix switch contained within a 1u high 19" custom built housing. Each mini switch is designed to house a maximum of 4 two channel port cards although the unit can be sub-equipped for smaller capacity systems.

There is only one variety of switch cards in the system and they can be programmed to be either a channel port, or an operator port.

The cards operate using our own DSP software code which greatly reduces the component count, thus providing a very cost effective method of providing a multi operator, multi channel control system.

System Communication

All of the system cards communicate with each other via a dual bus system controlled from one of the switch cards acting as a master controller running an arbitrator routine. Any one of the cards can function as the master controller thus ensuring a high level of redundancy within the switch system.

System wide broadcast messages enable all elements to be synchronised with systems events such as call status, channel occupancy, call alerts and alarm messages.

The switch node communicates with connected operator consoles via a serial data link. Another option is for remote operators to be routed to the switch utilising voice over IP technology. This will allow operator controllers networking via the internet or local intranet facilities.

Operator Options

There are two operator control options for the DS-Micro switch; these are the DRC-32 desktop control unit and the DRC-Ops a PC based software application for the more complex control room solutions.

The basic DRC-32 is a telephone style desktop unit with LCD, numerical keypad and programmable function keys. Other features include; footswitch, headset and ancillary RS232 port to support the connection of the PC for the DRC-ops application.

System Facilities

Full selective calling capabilities are supported by the DS-Micro switch. These include a call stack, emergency call and call alert tones.

Comprehensive call types are provided by the DS-Micro system; Individual and group calls, Broadcast facility, system intercom channel connect and telephone to channel connect. GPS location data are also supported, together with the capability to solicit location data from system users.

Audio recording facilities are provided at two locations within the DS-Micro system, centralised multi-channel recording is accessed via the recording port on the rear of the shelf. Similarly, local recording and play back is available from the tape output on the DRC-32 operator unit. Audio play back is presented via the DRC-32 handset, headset or loudspeaker.

System facilities are readily configurable via the intuitive and easy to use software application program available to the system administrator.

The DS-Micro switch system was designed specifically for small system configurations. In the event of network expansion all of the channel cards are fully re-usable in the DS-32 switch hardware platform.

System Specification

Power supply:	8 volts DC	Line interface: 4wire	-2 to -22dBm
Dimensions:	1u 19" custom housing	Record Level:	-10dBm
Serial Interface:	RS232	Auxilliary Level:	-10dBm
System Size:	8 ports configurable		

Line Signalling Standards:

Full M80 emulation Local or Remote Supervisories

Motorola Tone Remote user selectable key tone

AWCSL proprietary FFSK line control protocol

Analogue outputs for local control of a directly connected base station

In the interests of continued development, AWCSL reserves the right to change this specification without notice.

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