2241A AUDIO / PTT DISTRIBUTION PANEL
The 2241A now has extended low frequency audio response to pass Digitally Coded Squelch / Digital PL (DPL) Codes.

It provides a compact means of distributing audio and Push to Talk (PTT) signals to as many as 24 base stations. In addition, it provides manual PTT override for individual transmitters. 24, lighted, front panel switches permit each radio to be keyed, disabled, or track normal console control. Manual PTT control is used for installation and management of radio networks. It is also used to align simulcast networks by enabling one transmitter at a time to measure delay.

The 2241A is packaged in a 1U high, rack mounting, panel. Power options include a universal AC Supply; or 12, 24, or 48 Volt DC Supplies. Redundant power modules can be replaced while the panel is in service. A contact closure is provided across pins 25/50 on the Audio Output Connector to alarm in the event of a power module failure.

Audio and PTT distribution is configured by 7 internal switches which can be set to fan out a single input to up to 24 outputs, 2 inputs to 12 outputs, or various other configurations.

Distribution Capacity: 24 Audio Outputs per 2241A
8 Audio Inputs per 2241A
8 Summing Inputs per 2241A
24 PTT Outputs per 2241A
8 PTT Inputs can be distributed
24 PTT Inputs for buffering, or logic conversion

PTT BUFFERING High current PTT Outputs permit direct drive of equipment requiring up to 100 mA keying current.

PTT LOGIC CONVERSION Independent PTT Input and Output Logic Selectors permit PTT logic conversion among: E/M, TTL, and *Digitac.

SPECIFICATIONS

AUDIO DISTRIBUTION AMPS
Frequency Range: 4 Hz to 5000 Hz (0.1 dB Bandwidth)
Response Variation Less than 0.1 dB, 4 to 5000 Hz
Tx Inputs: 8 Floating, Balanced, 600 Ohm
Sum Inputs: 8 Floating, Balanced, 600 / Hi Z
Outputs: 24 Floating, Balanced, 600 Ohm
Gain: 0 dB, +/- 10 dB / 24 FP controls
I/O Return Loss: Greater than 26 dB
Input/Output Level: +10 dBm maximum
Noise: Less than -60 dBmC

PTT CIRCUITS
Outputs: 24 High Current (100 mA) Outputs
E/M, TTL, or *Digitac / Relay Closure
Inputs: 24 E/M Type 1-5, TTL, or *Digitac
8 Inputs for distribution applications
M Type I,II,III:  Key <-20 V / Idle >-20 V
M Type IV, V; E: Key >-20 / Idle <-20 V
TTL: Key < +2.5 V / Idle > +2.5 V
*Digitac: Key < +6 V / Idle > +6 V
* Digitac is a Trademark of Motorola Inc.

AUDIO / PTT DISTRIBUTION CONTROL
7 Switches: 1 Input to 24 Outputs, or
2 Inputs to 12 Outputs each, or numerous other distribution options.

MANUAL PTT CONTROL
PTT Switches 24 (3 Position) Front Panel Switches
KEY: Keys transmitter / Lit Red
NORMAL: Console control / Lit Green = PTT
DISABLE: Disables PTT / Lit Red

ENVIRONMENT: -30 to 60º C, 95% R.H.
I/O CONNECTORS: 2 sets of 50 pin "Telco" type
DIMENSIONS: 1.7" H x 12" D x 19" W. / 6 lbs.
POWER: 90-264 VAC; Order: 2241A-AC
12, 24, or 48 VDC, Order: 2241A-XX

WARRANTY All Convex Products are warranted to be free of manufacturing defects for a period of one year.