

# **Desktop Basestation Accessory Kit**

converts the RS-5300 mobile radio into a desktop basestation.



# 431-BAK Basestation Accessory Kit

IDA Corporation's **Desktop Basestation Accesso<sub>r</sub>y Kit Model 431-BAK** features compact size and versatility in a desktop basestation.

Currently available for the following radios:

EF Johnson's RS5300 (APCO 25), Summit (Multi-Net), 9800 series (Multi-Net, SmartNet, SmartZone)

# Model 24-66MMSK (Desk Microphone) Model 24-66HMSK (Handset)

IDA Coporation's industry leading **Mini-Console Deskset**, now with digital signaling, provides the high speed switching and communication required for demanding trunking systems.



# Model 20-28

**Model 20-28 remote termination panel** is field programmable via IBM compatible PC and features digital signaling in a MSK format. This method of communicating with the radios microprocessor offers virtually total remote control.



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# 431-BAK Basestation Accessory Kit

IDA Corporation has designed a desktop basestation accesssory kit, which converts the RS-5300 mobile radio into a desktop basestation.

The 431-BAK accessory kit includes a wraparound hood enclosure with power supply, IDA Corporation's digital termination panel (20-28), front firing speaker and local desk microphone.

#### **431-BAK FEATURES**

- 18 amp power supply with wrap around hood
- Front firing speaker (40hm 5 watt)
- Radio interface and speaker cables
- Model 20-28 termination panel
- PC Programmable
- Local Control Operation

#### **BENEFITS**

Upgrading is easy and cost effective Local Control (fully useable basestation) Remote controllable over 2 or 4 wire lines Intercom between basestation and IDA remotes

# Model 24-66MSK Remote Console

#### 24-66MSK FEATURES

- Field Programmable by PC
- Control and display up to 99 channels and groups or zones and channels.
- Monitor
- Intercom
- Scan
- Programmable faceplate for Auxiliary functions.
- Mute
- 30db of Compression and 3 watts of Speaker audio.

#### BENEFITS

As your communication needs grow and change the the 24-66MSK will keep up. Standard features that are not needed now, can be activated later with simple programming done in the field.

Monitor, Intercom, Mute, Scan, Alpha-Numeric Display, Number of Channels, System and Groups or Zones and Channels, Full Faceplate programmability.

#### Other 24-66MSK Options:

RBC-001	Wall Mounting Bracket		
RBC-002	External Encode/Decode Cable		
RBC-003-95	Windows 95 Programming Cable & Software		

# 20-28 Digital Termination Panel

The 20-28 is a programmable termination panel, featuring digital signaling in a proprietary MSK format, designed for use with IDA Model 24-66 desk top controllers equipped with digital signaling. By decoding the proper digital signals, the 20-28 can control remotely located base stations or repeaters. In addition to providing a two-way path for audio, the unit also provides update information back to the desk top controllers. This update allows the operator immediate information as to the remote radio's status, such as channel, in or out of scan, or the current System & Group if a trunking application.

#### Local Operation

For installations where local operation of the base station is desired, the 20-28 is available with a desk microphone, speaker jack, and volume control (Option RTM-604).

### The Total Solution

Comprising a truly integrated remote control system, the 20-28 Termination Panel along with IDA Model 24-66 Remote Deskset allows the operator Total Remote Control. The panel and the desksets are always in touch. If the base station radio scans to a different channel or System & Group, the panel updates all the desksets and changes their display. If one operator selects a new channel, all the other remote desksets that are installed in parallel keep pace and display the new selection.

### STANDARD OR FIELD PROGRAMMABLE FEATURES

- 2 or 4 wire
- PC programmable
  Local control option
- Local control option
  Domote update
- Remote updateNon-volatile memory

### **20-28 SPECIFICATIONS**

10.7VDC - 18Vdc
75 mA
<3 W
0 to +70 deg C
90% at 50 deg C
600 ohms
50mVrms - 2.75 Vrms into 600 ohms
> 50dB (reference +10dBm)
< 3%
+1, -3dB
+1, -3dB at 6dB/octave
> 40dB
+1, -3dB
< 3%
30mVrms - 1.3Vrms into 600 ohms
2 or 4 wire
1 amp - Form C
Open collector - 100mA sink
RS 232
1 lb 5 oz (2.9 kilo)
1.5"H x 5.5"W x 5.5" D

- Serial or Binary output
- MSK signaling
- Selectable input/outputs
- Rugged metal case



## **PROGRAMMABLE OUTPUTS**

To meet the requirements of various manufacturers base stations the 20-28 can be programmed for a wide variety of outputs. For stations that are capable of receiving external serial commands,the 20-28 can be programmed to provide the proper command set. In addition, the unit can be programmed for Binary output.

This method of communicating with the radio's microprocessor- in much the same way that it's own faceplate display does- offers virtually total remote control. Advanced features such as SCAN, Lockout, Selective Calling, Priority SCAN, and others become possible. When programming the 20-28, up to eight of the outputs can be selected as inputs.

#### THESE RADIOS CAN BE DIRECTLY CONTROLLED BY THE 20-28:

EF JOHNSON SUMMIT Interface cable is IDA part #106-EFJ28SUM

EF JOHNSON 9800 series (high tier) Install kit is IDA part #105-2028EFJ98KIT (requires EFJ cable #597-9800-005)

KENWOOD TK 840/940 Interface cable is IDA part #106-KEN27CBL

KENWOOD TK780/880/980/790/890/990 Interface cable is IDA part #106-28KEN880

SEA ESP520 Interface cable is IDA part #106-SEA27CBL

#### THESE RADIOS CAN BE DIRECTLY CONTROLLED BY THE 20-28B:

**EF JOHNSON RS5300** Interface cable is IDA part #105-28EF5300 (requires EFJ cable #597-2002-249)

### HOOD ASSEMBLY SPECIFICATIONS

Overall Size Overall weight (without radio) Speaker Power Supply Digital Termination Panel Interface Cable Assembly 7.5" W x 8.5" D x 8.25" H 10 lbs. 4 Ohm 5 watt DuraComm Model LP-18 IDA Model 20-28 Radio and speaker cables

### **POWER SUPPLY DURACOMM MODEL LP-18**

**DC Output Voltage** 13.8VDC +/- 1% Regulation **Output Amps Peak** 18 **Output Amps Constant** 14 **Output Ripple & Noise** <100mv P to P Input Voltage Range 100-300 04 200-260 VAC **Typical Efficiency** 80% **Cooling Method** Thermostat Controlled Fan **Overload Protection** Foldback limited at 120% of maximum **Output Terminals Binding Posts** Size 7" W x 7.62" D x 1.75" H Weight 2.7lbs

## 24-66MSK TECHNICAL SPECIFICATIONS

Input Voltage Standby Voltage	117/230 VAC 50/60Hz +/- 20% 12-15VDC		
Standby Current	287mA (TX) 250mA (MAX) 620mA (RX) (STBY)		
Input Power (max)	8.5W (TX) 8.5W (STBY)		
Temperature Range	0 deg to +60 deg C		
Relative Humidity	90% at 50 deg C		
Line Impedance (1KHz)	600 ohms (TX)		
600 or 5k ohms (RX)			
Line Audio Output	-20 to +10dbm		
(600 ohm load)			
TX Hum & Noise (ref +11dbm)	-55db		
Threshold of Compression	-20dbm adjustable		
(line to speaker audio)			
Speaker Audio Output RMS	3W into 4 ohms		
Distortion (at rated speaker output)	Less than 3%		
RX Hum & Noise	-49db		
Frequency Response (300 to 3000Hz)	+1,-3db except at notch frequency		
RX compression	with an audio increase of 30db beyond the start of compression the output increase		
	less than 3db		
TX compression	with an audio increase of 30db beyond the start of compression the output increases 15 to 16db		
Line control	4 wire audio		
	4 wire audio		
Notch filter depth	-45db (RX) -25db (TX)	Multi-Net is a trademark of EF Johnson.	
	-45ub (NA) -25ub (TA)	SmartNet and SmartZone are trademarks of Motorola.	
Weight	4lbs 15oz	Specifications subject to change without notice.	
-		REV 9_02	
Dimensions	4.75" (H) x 10" (W) x 8" (D)		

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