

**LOW BAND**

**TKB-6900 Series Conventional Simplex Base Stations**

**29.7 - 50 MHz**

**GENERAL:**

TKB-6900 Series Low Band Base Stations are built around the TK-690 high performance 110W radio. The TK-690 transceiver is mounted in a 2 RU enclosure which includes forced air cooling and option bays for two peripheral circuit boards. The basic configuration includes a 2 channel tone termination panel (2 or 4 wire audio). Equipment may be mounted in a cabinet enclosure or open rack, and may be used either by itself (50W continuous duty or 110W at 20% duty cycle) or as a driver for an external continuous duty RF amplifier (100W or 300W).

**OPTIONS:**

Power supply options include battery backup with integrated SmartCharger and Low Voltage Disconnect. Mounting options include 20 RU (42") and 40 RU (77") locking cabinets in addition to 17 RU (3') and 45 RU (7") open equipment racks. External connections are RJ-11 for phone line, DB-25 for access to the internal chassis bus, & type N-female for RF. T-R simplex antenna switching is included in the basic unit as well as in all external amplifiers. Other configurations are also available on a special order basis; please contact your Kenwood Systems Regional Sales Manager for more details.

**ORDERING INSTRUCTIONS:**

**Step 1:** Determine the frequency sub-band:

K1 = 29.7 - 37.0MHz    Order **TKB6900SK1** basic configuration  
K2 = 35.0 - 43.0MHz    Order **TKB6900SK2** basic configuration  
K3 = 39.0 - 50.0MHz    Order **TKB6900SK3** basic configuration

**Step 2:** Select an RF amplifier option.

**Step 3:** Select a power supply option.

**Step 4:** Select the desired mounting configuration.

**Step 5:** Select optional equipment or configuration changes.

**Step 6:** Add the basic configuration (Step 1) to the desired RF amplifier, power supply, mounting configuration and optional equipment (Steps 2-5) to determine configuration pricing. Specify frequencies and tone assignments with order.

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	LIST
<b>STEP 1 -- TKB-6900 BASIC CONFIGURATION:</b>	
<b>TKB6900SK1</b> BASIC CONFIGURATION, 29.7 - 37.0MHz	\$3,297
<b>TKB6900SK2</b> BASIC CONFIGURATION, 35.0 - 43.0MHz	\$3,297
<b>TKB6900SK3</b> BASIC CONFIGURATION, 39.0 - 50.0MHz	\$3,297
TKB-6900 low band base station basic configuration includes 40A DC power supply and 2 channel tone termination panel. Base station provides 50W continuous duty, 110W at 20% duty cycle. Includes factory tuning and staging, one service manual, and programming software; ships unmounted.	
<b>STEP 2 -- RF AMPLIFIER OPTIONS:</b>	
<b>OPTION KSGA110B: 100W CONTINUOUS DUTY RF AMPLIFIER UPGRADE</b>	\$2,171
Upgrade to include external 100W continuous duty RF amplifier, 29.7-50.0MHz. Amplifier occupies 4 RU and is powered by the 40A, 13.8VDC power supply included in the basic station configuration. Includes factory tuning, RF cables, wiring and internal T-R antenna relay.	
<b>OPTION KSGA130B: 300W CONTINUOUS DUTY RF AMPLIFIER UPGRADE</b>	\$6,499
Upgrade to include external 300W continuous duty RF amplifier, 29.7-50.0MHz. Amplifier occupies 8 RU and is powered by a 70A, 13.8VDC power supply. Includes factory tuning, RF cables, wiring and internal T-R antenna relay.	
<b>STEP 3 -- POWER SUPPLY OPTIONS:</b>	
<b>OPTION KSGPWRX4: DELETE POWER SUPPLY</b>	-\$83
Delete power supply from basic station configuration or amplifier upgrade configuration.	
<b>OPTION KSGPWR34: UPGRADE FROM 40A TO 35A POWER SUPPLY WITH SMARTCHARGER</b>	\$881
For 100W amplifier option above, upgrade to 35A, 13.8VDC continuous duty switching power supply with front panel metering, built-in SmartCharger, low-voltage disconnect, and solid state no-break transfer diodes. Occupies 2 RU, includes sealed fuse holder and fuses for battery (battery not included). Gel cell batteries are available separately; please contact your Kenwood Systems Regional Sales Manager for details.	
<b>OPTION KSGPWR74: UPGRADE FROM 40A TO 70A POWER SUPPLY</b>	\$881
For 100W amplifier options above, upgrade to 70A, 13.8VDC continuous duty switching power supply with front panel metering; occupies 2 RU. Will power up to 2 channels.	
<b>OPTION KSGPWRB4: UPGRADE FROM 40A TO 70A POWER SUPPLY WITH SMARTCHARGER</b>	\$1,263
For 100W amplifier option above, upgrade to 70A, 13.8VDC continuous duty switching power supply with front panel metering, built-in SmartCharger, low-voltage disconnect, and solid state no-break transfer diodes. Occupies 2 RU, includes sealed fuse holder and fuses for battery (battery not included). Gel cell batteries are available separately; please contact your Kenwood Systems Regional Sales Manager for details.	
<b>OPTION KSGPWRH7: UPGRADE FROM 70A TO 70A POWER SUPPLY WITH SMARTCHARGER</b>	\$381
For 300W Amplifier option above, upgrade to 70A, 13.8VDC continuous duty switching power supply with front panel metering, built-in SmartCharger, low-voltage disconnect, and solid state no-break transfer diodes. Occupies 2 RU, includes sealed fuse holder and fuses for battery (battery not included). Gel cell batteries are available separately; please contact your Kenwood Systems Regional Sales Manager for details.	
<b>STEP 4 -- MOUNTING CONFIGURATION:</b>	
<b>OPTION KSGMRCK3: 17 RU (3') ALUMINUM EQUIPMENT RACK</b>	\$1,157
Standard 3' aluminum equipment rack providing 17 RU vertical mounting. Pricing includes equipment installation, hardware, cabling and wire management materials, and cushioned shipping crate.	
<b>OPTION KSGMRCK7: 45 RU (7') ALUMINUM EQUIPMENT RACK</b>	\$1,250
Standard 7' aluminum equipment rack providing 45 RU vertical mounting. Pricing includes equipment installation, hardware, cabling and wire management materials, and cushioned shipping crate.	

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<b>OPTION KSGMCAB2: 20 RU (42") LOCKING CABINET</b> Locking cabinet, 42"H x 22"W x 24"D, providing 20 RU vertical mounting, solid front door, louvered rear door, perforated top panel. Pricing includes equipment installation, hardware, cabling and wire management materials, and cushioned shipping crate.	\$1,750
<b>OPTION KSGMCAB4: 40 RU (77") LOCKING CABINET</b> Locking cabinet, 77"H x 22"W x 24"D, providing 40 RU vertical mounting, solid front door, louvered rear door, perforated top panel. Pricing includes equipment installation, hardware, cabling and wire management materials, and cushioned shipping crate.	\$2,659
<b>OPTION KSGMCABT: CABINET SOLID TOP UPGRADE</b> Cabinet upgrade to solid top panel; replaces standard perforated top panel.	\$63
<b>OPTION KSGMCABF: CABINET FAN TOP UPGRADE</b> Cabinet upgrade to solid top panel with 10" diameter 120VAC fan, replaces standard perforated top panel. Fan can be mounted above panel or below; requires 2 RU clearance inside cabinet if mounted below panel (default position is below panel).	\$445
<b>OPTION KSGMCABB: CABINET INTERIOR SOLID FLOOR UPGRADE</b> Cabinet upgrade to add solid interior bottom panel inside cabinet, with 5 cable access openings (includes grommets and plugs).	\$93

**STEP 5 -- OPTIONAL EQUIPMENT CONFIGURATIONS:**

**WIRELINE REMOTE CONTROL OPTIONS:**

<b>OPTION KSGTN10B: 10 CHANNEL DISCRETE TONE TERMINATION PANEL UPGRADE</b> Upgrade to 10 channel (Discrete) tone termination panel, 2 or 4 wire, 600 Ohm balanced audio with monitor, installs in one station option bay.	\$393
<b>OPTION KSGTN16B: 16 CHANNEL BCD TONE TERMINATION PANEL UPGRADE</b> Upgrade to 16 channel (BCD) tone termination panel, 2 or 4 wire, 600 Ohm balanced audio with monitor, occupies 1 RU.	\$774
<b>OPTION KSGTDC2B: 2 CHANNEL DC TERMINATION PANEL OPTION</b> Replace 2 channel tone termination channel with 2 channel DC termination panel, 2 or 4 wire, 600 Ohm balanced audio with monitor, installs in one station option bay. Specify required DC current settings at time of order.	\$0
<b>OPTION KSGTALD2: 600 Ohm BALANCED AUDIO LINE DRIVER &amp; 4-WIRE E&amp;M INTERFACE</b> Replace 2 channel tone termination channel with 1 channel receive audio line driver panel, 2 wire, 600 Ohm balanced output, installs in one station option bay. May also be configured to fully support a 4-wire E&M interface application.	\$0

**MISC STATION OPTIONS:**

<b>OPTION KSGVOT1A: SIGNAL-TO-NOISE VOTER WITH ONE STATION MODULE</b> 19" rack mount modular receiver voting comparator. Includes 1 station voter module for primary site (an additional station module is required for each additional voted receiver site), occupies 3 RU.	\$8,840
<b>OPTION KSGVOT2A: ADDITIONAL STATION MODULE</b> Additional station voter module for signal-to-noise voting comparator. Occupies one card slot in KSGVOT1A chassis.	\$1,345
<b>OPTION KSGOPTG1: PILOT TONE GENERATOR AND LINE DRIVER</b> Internal pilot tone generator for use with voting systems, supplies 600 Ohm balanced 2 wire audio, installs in one station option bay.	\$855

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<b>OPTION KSGOCWID: MORSE CODE IDENTIFIER</b> Internal automatic CWID Morse Code Identifier (addition to basic station), installs inside basic station enclosure. Specify call sign at time of order. Includes programmer and cable.	\$131
<b>OPTION KPG-43AM: PROGRAMMING CABLE</b>	\$114.50
<b>OPTION KCT-53UM: DB9M TO USB TYPE A CONNECTOR</b>	\$86.00
<b>OPTION B51-8460-10: TK-690 SERVICE MANUAL</b>	\$53.00
<b>OPTION KPG-44DK: PROGRAMMING SOFTWARE</b>	N/A

Note: Outdoor cabinets and other items are available by special order.  
Please contact your Kenwood Systems Regional Sales Manager for more information.

**KENWOOD USA CORPORATION, COMMUNICATIONS SECTOR, SYSTEMS DIVISION  
SYSTEM CONFIGURATION WORKSHEET**

DEALER:  DLR #:  CONTACT:

PHONE:  FAX:  E-MAIL:

SHIP TO:  CITY:  ST:  ZIP:

PREPARED BY:  DATE:

REFERENCE PURCHASE ORDER NUMBER:  PAGE  OF

**SYSTEM CONFIGURATION:** Specify the primary system part number selected previously in Step 1 (e.g. TKR7400SK1, TKB8510PS, etc.); it is not necessary to list the various system options already indicated on your Purchase Order. Also specify the transmit power level required at the amplifier output (or exciter output, if being used without an external amplifier). *Please Note: It is very important that your required transmit levels be provided at time of order, since several of our amplifier models cannot be field-adjusted without voiding the product warranty.* If applicable, mark the box labeled "B" if the system will be used as a simplex, single-antenna base station, or mark "P" if it is intended for use in a transmit-only paging application. For conventional systems using wireline remote control, indicate remote control type (Tone, DC, or Extended Local), desired audio line levels (0dBm / 0dBm or +7dBm / -16dBm), and required circuit configuration (2-wire simplex or 4-wire full duplex).

PRODUCT CLASSIFICATION										CONFIGURATION			WIRELINE REMOTE CONTROL			
TKR/TKB/KSG/NXR					PRODUCT DESIGNATOR SUFFIX					TRANSMIT POWER			CONTROL TYPE		AUDIO LEVELS	2W SIM / 4W DUP
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<b>W</b> <input type="checkbox"/> <b>B</b> <input type="checkbox"/> <b>P</b> <input type="checkbox"/>			<input type="text"/>	<input type="text"/>	/	<input type="text"/>

**RADIO INFORMATION:** Specify the desired transmit and receive frequencies (include all four decimal places) for both Conventional and Trunking systems in blocks of 5, indicating either Wideband or Narrowband for each channel (use additional sheets if necessary). For Conventional channels, specify transmit and receive CTCSS frequencies (example: 131.8 Hz) or DCS codes (example: D732N) in the boxes provided; or mark the CSQ box if the channel is Carrier Squelch only (no CTCSS or DCS).

TRANSMITTER					RECEIVER				
CHAN	CHAN TX FREQ	W / N	TX CTCSS / DCS	CSQ	CHAN RX FREQ	W / N	RX CTCSS / DCS	CSQ	
1	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	
2	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	
3	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	
4	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	
5	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	

**TRUNKING CONTROLLER INFORMATION (if applicable):** For LTR Trunking systems, specify the model number of the controller to be used on each channel and identify the sync master (1 per system). Also specify the LTR channel assignments for each controller, the Area Bit (0 or 1; all channels must match), the type of Telephone Interconnect (2W = 2-wire POTS, 4W = 4-wire E&M, DID = 4-wire Direct Inward Dialing), whether RDD is to be set ON or OFF (VHF and UHF only), and the CWID to be used (if no CWID, check the NONE box). If the current firmware revision is acceptable, mark the box provided; otherwise, specify the version needed. PassPort and MPT-1327 systems require special setup; please contact Kenwood USA Corporation, Systems Division at 1-800-TRUNKING for more information.

CONTROLLER MODEL				LTR CONTROLLER SETUP					FIRMWARE VERSION		
CHAN	CONTROLLER	SYNC MASTER		LTR CHAN	AREA	INTERCONNECT	RDD	CWID	NONE	FIRMWARE	CURRENT
1	KSG	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>
2	KSG	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>
3	KSG	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>
4	KSG	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>
5	KSG	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>

**SPECIAL INSTRUCTIONS:**

Is this system for resale? (check one)  Yes  No

Signature (required)