

VHF
TKR-7400P P25 Repeater
146 - 162 MHz

GENERAL:

The TKR-7400P repeater and the KSGCP401 external P25 controller occupy 2 RU and may be used as a 5W standalone low power station or as a driver for an external power amplifier. The P25 controller includes one channel card and an option to add up to three more for a total of four. One channel card is required for each repeater. The TKR-7400P is a P25 conventional repeater and cannot be configured for base station operation.

OPTIONS:

Conventional station options include up to three additional channel cards. High performance 4 and 6 cavity BpBr duplexers are listed as options; multichannel combining systems are quoted on an individual system basis. 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. Amplifier choices include 40W and 100W options with a 2RU 40A switching power supply, or a 150W option with a 2RU 70A switching power supply. Custom configurations are also available; contact your Kenwood Systems Regional Sales Manager for more details.

Channel cards can be used for existing 40 series repeaters, existing repeaters will need to be sent to Kenwood to be modified and interfaced. The labor code for the modification must be ordered with the channel card.

ORDERING INSTRUCTIONS:

Step 1: Determine the frequency sub-band:

K1 = 146 - 162 MHz Order **TKR7400SK1** basic repeater

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.

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LIST

STEP 1 -- TKR-740 REPEATER

TKR7400SK1 BASIC CONFIGURATION, 146 - 162 MHz	\$3,417
TKR-7400 repeater / base station basic configuration includes 5W continuous duty repeater and 19-inch rack mountable 20A DC power supply. Includes factory tuning and staging, one service manual and programming software.	
KSGCP401 P25 CONTROLLER	\$7,945
KSGCP401 includes one channel card housed in a 1 RU 19-inch rack mountable housing with cable. Maximum 4 channel cards.	
KSGCP402 CHANNEL CARD	\$6,112
Channel card and cable used for additional repeaters at the same site.	
KSGMODP2 CIRCUIT MODIFICATION FOR EXISTING REPEATERS	\$750
Modification to circuits for P25 operation. This modification must be done by Kenwood. It is not a field upgrade	

STEP 2 -- RF AMPLIFIER OPTIONS:

OPTION KSGA204S: 50W CONTINUOUS DUTY RF AMPLIFIER OPTION FOR REPEATER STATION	\$1,625
Repeater station upgrade to include external 50W continuous duty RF amplifier, 136-174MHz. Amplifier occupies 4 RU and includes a 40A, 13.8VDC power supply (upgrade from basic 20A power supply). Includes factory tuning, wiring and RF cables.	
OPTION KSGA211S: 110W CONTINUOUS DUTY RF AMPLIFIER OPTION FOR REPEATER STATION	\$2,180
Repeater station upgrade to include external 110W continuous duty RF amplifier, 136-174MHz. Amplifier occupies 4 RU and includes a 40A, 13.8VDC power supply (upgrade from basic 20A power supply). Includes factory tuning, wiring and RF cables.	
OPTION KSGA215S: 150W CONTINUOUS DUTY RF AMPLIFIER OPTION FOR REPEATER STATION	\$4,191
Repeater station option to include external 150W continuous duty RF amplifier, 136-174MHz. Amplifier occupies 8 RU and includes a 70A, 13.8VDC power supply (upgrade from basic 20A power supply). Includes factory tuning, wiring and RF cables.	

STEP 3 -- POWER SUPPLY OPTIONS:

OPTION KSGPWRX2: DELETE POWER SUPPLY	-\$50
Delete power supply from basic station configuration or amplifier upgrade configuration.	
OPTION KSGPWR34: UPGRADE FROM 40A TO 35A POWER SUPPLY WITH SMARTCHARGER	\$881
For 50W and 110W amplifier options 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.	
OPTION KSGPWR74: UPGRADE FROM 40A TO 70A POWER SUPPLY	\$881
For 50W and 110W 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.	
OPTION KSGPWRB4: UPGRADE FROM 40A TO 70A POWER SUPPLY WITH SMARTCHARGER	\$1,263
For 50W and 110W amplifier options 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). Will power up to 2 channels. Gel cell batteries are available separately; please contact your Kenwood Systems Regional Sales Manager for details.	
OPTION KSGPWRH7: UPGRADE FROM 70A TO 70A POWER SUPPLY WITH SMARTCHARGER	\$381
For 150W Amplifier options 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.	

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STEP 4 -- MOUNTING CONFIGURATION:

OPTION KSGMRCK3: 17 RU (3') ALUMINUM EQUIPMENT RACK	\$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.	
OPTION KSGMRCK7: 45 RU (7') ALUMINUM EQUIPMENT RACK	\$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.	
OPTION KSGMCAB2: 20 RU (42") LOCKING CABINET	\$1,750
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.	
OPTION KSGMCAB4: 40 RU (77") LOCKING CABINET	\$2,659
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.	
OPTION KSGMCABT: CABINET SOLID TOP UPGRADE	\$63
Cabinet upgrade to solid top panel; replaces standard perforated top panel.	
OPTION KSGMCABF: CABINET FAN TOP UPGRADE	\$445
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).	
OPTION KSGMCABB: CABINET INTERIOR SOLID FLOOR UPGRADE	\$93
Cabinet upgrade to add solid interior bottom panel inside cabinet, with 5 cable access openings (includes grommets and plugs).	

STEP 5 -- OPTIONAL EQUIPMENT CONFIGURATIONS:

MISC STATION OPTIONS:

OPTION KSGD2P1B: 6 CAVITY VHF BpBr DUPLEXER	\$3,080
6 cavity Bandpass/Bandreject duplexer, 350W continuous duty, minimum TX-RX spacing 400 KHz. Includes RF interface cables, mounting, and factory tuning. Duplexers are fully integrated and tested during system staging.	
OPTION KPG-46AM: PROGRAMMING CABLE	\$191.00
OPTION KCT-53UM: DB9M TO USB TYPE A CONNECTOR	\$86.00
OPTION B51-8505-10: TKR-740 SERVICE MANUAL	\$53.00
OPTION KPG-47DK: PROGRAMMING SOFTWARE	N/A

Note: Pre-Selectors, Multi-Couplers, Combiners, Outdoor Cabinets, and other items are available by special order.
 Please contact your Kenwood Systems Regional Sales Manager for more information.

UHF
TKR-8400P P25 Repeater
450 - 480 MHz

GENERAL:

The TKR-8400P repeater and the KSGCP401 external P25 controller occupy 2 RU and may be used as a 5W standalone low power station or as a driver for an external power amplifier. The P25 controller includes one channel card and an option to add up to three more for a total of four. One channel card is required for each repeater. The TKR-8400P is a P25 conventional repeater and cannot be configured for base station operation.

OPTIONS:

Conventional station options include up to three additional channel cards. High performance 4 and 6 cavity BpBr duplexers are listed as options; multichannel combining systems are quoted on an individual system basis. 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. Amplifier choices include 40W and 100W options with a 2RU 40A switching power supply, or a 150W option with a 2RU 70A switching power supply. Custom configurations are also available; contact your Kenwood Systems Regional Sales Manager for more details.

Channel cards can be used for existing 40 series repeaters, existing repeaters will need to be sent to Kenwood to be modified and interfaced. The labor code for the modification must be ordered with the channel card.

ORDERING INSTRUCTIONS:

Step 1: Determine the frequency sub-band:

K1 = 450 - 480 MHz Order **TKR8400PSK1** basic repeater

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.

UHF
TKR-8400P P25 Repeater
450 - 480 MHz

LIST

STEP 1 -- TKR-8400 BASIC CONFIGURATION:

TKR8400PSK1 BASIC CONFIGURATION, 450 - 480 MHz	\$3,510
TKR-8400P repeater basic configuration includes 5W continuous duty repeater and 19-inch rack mountable 20A DC power supply. Includes factory tuning and staging, one service manual and programming software.	
KSGCP401 P25 CONTROLLER	\$7,945
KSGCP401 includes one channel card housed in a 1 RU 19-inch rack mountable housing with cable. Maximum 4 channel cards.	
KSGCP402 CHANNEL CARD	\$6,112
Channel card and cable used for additional repeaters at the same site.	
KSGMODP2 CIRCUIT MODIFICATION FOR EXISTING REPEATERS	\$750
Modification to circuits for P25 operation. This modification must be done by Kenwood. It is not a field upgrade	

STEP 2 -- RF AMPLIFIER OPTIONS:

OPTION KSGA304S: 40W CONTINUOUS DUTY RF AMPLIFIER OPTION FOR REPEATER STATION	\$1,561
Repeater station option to include external 40W continuous duty RF amplifier, 400-512MHz. Amplifier occupies 4 RU and includes a 40A, 13.8VDC power supply. Includes factory tuning, wiring and RF cables.	
OPTION KSGA310S: 100W CONTINUOUS DUTY RF AMPLIFIER OPTION FOR REPEATER STATION	\$2,107
Repeater station option to include external 100W continuous duty RF amplifier, 400-512MHz. Amplifier occupies 4 RU and includes a 40A, 13.8VDC power supply. Includes factory tuning, wiring and RF cables.	
OPTION KSGA315S: 150W CONTINUOUS DUTY RF AMPLIFIER OPTION FOR REPEATER STATION	\$4,924
Repeater station option to include external 150W continuous duty RF amplifier, 450-512MHz. Amplifier occupies 8 RU and includes a 70A, 13.8VDC power supply (upgrade from basic 20A power supply). Includes factory tuning, wiring and RF cables.	

STEP 3 -- POWER SUPPLY OPTIONS:

OPTION KSGPWRX2: DELETE POWER SUPPLY	-\$50
Delete power supply from basic station configuration or amplifier upgrade configuration.	
OPTION KSGPWR34: UPGRADE FROM 40A TO 35A POWER SUPPLY WITH SMARTCHARGER	\$881
For 40W and 100W amplifier options 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.	
OPTION KSGPWR74: UPGRADE FROM 40A TO 70A POWER SUPPLY	\$881
For 40W and 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.	
OPTION KSGPWRB4: UPGRADE FROM 40A TO 70A POWER SUPPLY WITH SMARTCHARGER	\$1,263
For 40W and 100W amplifier options 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). Will power up to 2 channels. Gel cell batteries are available separately; please contact your Kenwood Systems Regional Sales Manager for details.	
OPTION KSGPWRH7: UPGRADE FROM 70A TO 70A POWER SUPPLY WITH SMARTCHARGER	\$381
For 150W Amplifier options 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.	

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STEP 4 -- MOUNTING CONFIGURATION:

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Standard 3' aluminum equipment rack providing 17 RU vertical mounting. Pricing includes equipment installation, hardware, cabling and wire management materials, and cushioned shipping crate.	
OPTION KSGMRCK7: 45 RU (7') ALUMINUM EQUIPMENT RACK	\$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.	
OPTION KSGMCAB2: 20 RU (42") LOCKING CABINET	\$1,750
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.	
OPTION KSGMCAB4: 40 RU (77") LOCKING CABINET	\$2,659
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.	
OPTION KSGMCABT: CABINET SOLID TOP UPGRADE	\$63
Cabinet upgrade to solid top panel; replaces standard perforated top panel.	
OPTION KSGMCABF: CABINET FAN TOP UPGRADE	\$445
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).	
OPTION KSGMCABB: CABINET INTERIOR SOLID FLOOR UPGRADE	\$93
Cabinet upgrade to add solid interior bottom panel inside cabinet, with 5 cable access openings (includes grommets and plugs).	

STEP 5 -- OPTIONAL EQUIPMENT CONFIGURATIONS:

OPTION KSGD3P1B: 6 CAVITY UHF BpBr DUPLEXER	\$3,080
6 cavity Bandpass/Bandreject duplexer, 250W continuous duty, minimum TX-RX spacing 3 MHz. Includes RF interface cables, mounting, and factory tuning. Duplexers are fully integrated and tested during system staging.	
OPTION KSGD3P2B: 4 CAVITY UHF BpBr DUPLEXER (450 - 470 MHz ONLY)	\$1,693
4 cavity Bandpass/Bandreject duplexer, 350W continuous duty, minimum TX-RX spacing 5 MHz. Includes RF interface cables, mounting, and factory tuning. Duplexers are fully integrated and tested during system staging.	
OPTION KPG-46AM: KPG-46AM PROGRAMMING CABLE	\$191.00
OPTION KCT-53UM: KCT-53UM DB9M TO USB TYPE A CONNECTOR	\$86.00
OPTION B51-8506-00: TKR-840 SERVICE MANUAL	\$53.00
OPTION KPG-47DK: KPG-47DK PROGRAMMING SOFTWARE	N/A

Note: Pre-Selectors, Multi-Couplers, Combiners, Outdoor Cabinets, and other items are available by special order.
Please contact your Kenwood Systems Regional Sales Manager for more information.