



MOTOROLA

SLR 8000 Ordering Guidelines

Updated June 2018



SLR 8000

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ORDERING GUIDELINES FOR SLR 8000 BASE RADIO

1. Main Model

The following main model must be ordered for a SLR 8000 Base Radio.

T8319A	SLR 8000 BASE RADIO
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Ordering Note: Only order a quantity of one of the T8319A per line item. This model number will automatically generate internally added options for all hardware components that are not part of an orderable option (such as internal cabling).

2. Frequency Band

Enter the Frequency Band option:

CA02962AA	ADD: UHF1 (400-470 MHz)
CA02965AA	ADD: VHF (136-174 MHz)
CA03385AA	ADD: 800 MHz
CA03414AA	ADD: 900 MHz

Ordering Note: One TX and one RX frequency must be specified and will be collected at the main model level at time of order.

UHF R1: Frequency Rules for CA02962AA:

RX Range: 400.0000 – 470.0000 MHz

TX Range: 400.0000 – 470.0000 MHz

If Freq (TX) is 400-470 MHz, then Freq (RX) > + 0.25 MHz TX

All frequencies must be divisible by 0.00625

VHF: Frequency Rules for CA02965AA:

RX Range: 136.0000 – 174.0000 MHz

TX Range: 136.0000 – 174.0000 MHz

If Freq (TX) is 136-174 MHz, then Freq (RX) $\geq \pm 0.25$ MHz TX

All frequencies must be divisible by 0.00625

800 MHz: Frequency Rules for CA03385AA:

RX Range: 806.0000 – 825.0000 MHz

TX Range: 851.0000 – 870.0000 MHz

If Freq (TX) is 851-870 MHz, then Freq (RX) = TX-45 MHz

All frequencies must be divisible by 0.00625

900 MHz: Frequency Rules for CA03414AA:

RX Range: 896.0000 – 902.0000 MHz

TX Range: 935.0000 – 941.0000 MHz

If Freq (TX) is 935-941 MHz, then Freq (RX) = TX-39 MHz

All frequencies must be divisible by 0.00625

When operating the SLR 8000 as a base station, the following option is required:

CA03000AA	ADD: BASE STATION OPERATION
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Ordering Note: TX and RX frequencies can be equal when the base station operation option is ordered. Does not include antenna relay, if required order option: CA02995AA (ADD: ANTENNA RELAY) which also requires the CA02996AA (ADD: WIRELINE) option.

3. Optional configurations and peripherals:

The following options are *optional*. Please note that when ordering a duplexer, the pre-selector option is mandatory with the exception of the 800 MHz band option (CA03386AA). Please also note the antenna relay cannot be ordered with any duplexer.

DUPLEXERS:

CA02984AA	ADD : DUPLEXER, UHF (403-435MHz) ♦
CA02985AA	ADD : DUPLEXER, UHF (435-470MHz) ♦
CA02981AA	ADD : DUPLEXER, VHF (136-146 MHz) ♦♦
CA02982AA	ADD : DUPLEXER, VHF (144-160 MHz) ♦♦
CA02983AA	ADD : DUPLEXER, VHF (158-174 MHz) ♦♦
CA03386AA	ADD : DUPLEXER, 800 MHz

- ♦ **UHF (R1 403-470 MHz):** TX and RX frequencies must be at least 5 MHz apart if peripherals are desired.
- ♦♦ **VHF (136-174 MHz):** TX and RX frequencies must be at least 1 MHz apart if peripherals are desired.

CA02984AA provides the option of using the same antenna for receive and transmit in the UHF (403-435 MHz) standalone base radio configuration. If the CA02984AA is ordered, CA02989AA, ADD: PRESELECTOR, UHF (350-470MHz) is required. The TX and RX frequency separation should be at least 5.0 MHz for best performance.

CA02985AA provides the option of using the same antenna for receive and transmit in the UHF (435-470 MHz) standalone base radio configuration. If the CA02985AA is ordered, CA02989AA, ADD: PRESELECTOR, UHF (350-470MHz) is required. The TX and RX frequency separation should be at least 5.0 MHz for best performance.

CA02981AA provides the option of using the same antenna for receive and transmit in the VHF (136-146 MHz) standalone base radio configuration. If the CA02981AA is ordered, the CA02986AA, ADD: PRESELECTOR, VHF (136-154MHz) is required. The TX and RX frequency separation must be at least 1 MHz for best performance.

CA02982AA provides the option of using the same antenna for receive and transmit in the VHF (144-160 MHz) standalone base radio configuration. If the CA02982AA is ordered, the CA02986AA, ADD: PRESELECTOR, VHF (136-154MHz) or CA02987AA, ADD: PRESELECTOR, VHF (150-174MHz) are required. The TX and RX frequency separation must be at least 1 MHz for best performance.

CA02983AA provides the option of using the same antenna for receive and transmit in the VHF (158-174 MHz) standalone base radio configuration. If the CA02983AA is ordered, the CA02987AA, ADD: PRESELECTOR, VHF (150-174MHz) is required. The TX and RX frequency separation must be at least 1 MHz for best performance.

CA03386AA provides the option of using the same antenna for receive and transmit in the 800 MHz standalone base radio configuration.

PRESELECTORS:

CA02989AA	ADD: PRESELECTOR, UHF (350-470MHZ) ♦
CA02986AA	ADD: PRESELECTOR, VHF (136-154MHZ) ♦♦
CA02987AA	ADD: PRESELECTOR, VHF (150-174MHZ) ♦♦

- ♦ UHF (R1 403-470 MHz): TX and RX frequencies must be at least 5 MHz apart if peripherals are desired.
- ♦♦ VHF (136-174 MHz): TX and RX frequencies must be at least 1 MHz apart if peripherals are desired.

CA02989AA provides RX filtering in the UHF 350-470 MHz for the standalone base radio configuration and is attached to the back side of the base radio. When ordering this option, the frequency separation between the highest RX frequency and the lowest RX frequency can be no more than 4 MHz

CA02988AA provides RX filtering in the UHF 450-527 MHz for the standalone base radio configuration and is attached to the back side of the base radio. When ordering this option, the frequency separation between the highest RX frequency and the lowest RX frequency can be no more than 4 MHz

CA02986AA provides RX filtering in the VHF 136 - 154 MHz for the standalone base radio configuration and is attached to the back side of the base radio. When ordering this option, the frequency separation between the highest RX frequency and the lowest RX frequency can be no more than 4 MHz

CA02987AA provides RX filtering in the VHF 150-174 MHz for the standalone base radio configuration and is attached to the back side of the base radio. When ordering this option, the frequency separation between the highest RX frequency and the lowest RX frequency can be no more than 4 MHz

DUAL CIRCULATORS:

Please note that when ordering a dual circulator, the CA02996AA Wireline option *is* mandatory.

CA02991AA	ADD: CIRCULATOR, UHF (403-470 MHz)
CA02992AA	ADD: CIRCULATOR, VHF (136-146 MHz)
CA02993AA	ADD: CIRCULATOR, VHF (144-160MHz)
CA02994AA	ADD: CIRCULATOR, VHF (158-174MHz)
CA03387AA	ADD: CIRCULATOR, 800 MHz

CA02991AA adds 2 circulators and a low pass filter that are mounted on a 2 rack unit tray for the UHF band (403-470 MHz). Since the power amplifier has one circulator, this option brings the total number of circulators to three.

CA02992AA adds 2 circulators and a low pass filter that are mounted on a 2 rack unit tray for the VHF band (136-146 MHz). Since the power amplifier has one circulator, this option brings the total number of circulators to three.

CA02993AA adds 2 circulators and a low pass filter that are mounted on a 2 rack unit tray for the VHF band (144-160 MHz). Since the power amplifier has one circulator, this option brings the total number of circulators to three.

CA02994AA adds 2 circulators and a low pass filter that are mounted on a 2 rack unit tray for the VHF band (158-174 MHz). Since the power amplifier has one circulator, this option brings the total number of circulators to three.

CA03387AA adds 2 circulators and a low pass filter that are mounted on a 2 rack unit tray for the 800 MHz band. Since the power amplifier has one circulator, this option brings the total number of circulators to three.

4. Cables:

A 12 foot AC power cable will come standard with the base radio. If a DC power cables is required, order option CA02971AA and a DC cable will be supplied in addition to the AC cable. If a region-specific AC power cable is required for international applications, please order one of the following power cables and it will be shipped instead of the US power cable.

CA02971AA	ADD : POWER CABLE, DC
CA02968AA	ADD : POWER CABLE, EUROPE
CA02969AA	ADD : POWER CABLE, UK
CA02970AA	ADD: POWER CABLE, AUSTRALIA
CA02972AA	ADD: POWER CABLE BRAZIL
CA02973AA	ADD: POWER CABLE ARGENTINA
CA02974AA	ADD: POWER CABLE KOREA
CA02975AA	ADD: POWER CABLE JAPAN
CA02976AA	ADD: POWER CABLE CHINA

The following interface cables are optional:

CA02977AA	ADD: AUXILIARY SYSTEM CABLE
CA02978AA	ADD: COMMUNITY REPEATER PANEL CABLE
CA02979AA	ADD: ANALOG/DIGITAL PHONE PATCH CABLE

5. Wireline, Test, Documentation, and Miscellaneous:

The following options are *optional*. Please note that when ordering the CA02999AA, ENH: SPECTRA TAC, the CA02996AA Wireline option *is* mandatory.

CA02996AA	ADD: WIRELINE
CA03040AA	ADD: SLR 8000 FACTORY TEST REPORT
CA03041AA	ADD: SLR 8000 BSIM CD
CA02999AA	ENH: SPECTRA TAC

6. FRU and Service Kits:

The following items are 'Field-Replaceable Units'. Additional replacement parts can be found in the Basic Service and Installation Manual.

PMTE4032AS	SLR 8000 UHF1 MODEM SERVICE KIT
PMTD4014AS	SLR 8000 VHF MODEM SERVICE KIT
PMTF4510AS	SLR 8000 8/900 MHZ MODEM SERVICE KIT
PMTE4000AS	SLR 8000 PA UHF1 ASSEMBLY SERVICE KIT
PMTD1360AS	SLR 8000 PA VHF SERVICE KIT
PMTF4511AS	SLR 8000 8/900 MHZ PA SERVICE KIT
PMPN4053AS	SLR 8000 POWER SUPPLY UNIT SERVICE KIT
PMLN6730AS	WIRELIN SERVICE KIT
PMLN7478AS	SLR 8000 MOUNTING HARDWARE SERVICE KIT
PMLN7092AS	SLR 8000 ANTENNA RELAY HDW SERVICE KIT
PMLN6822AS	SLR 8000 FRONT PANEL ASSEMBLY SERVICE KIT
PMLN7450A	SLR 8000 SERIES FAN ASSEMBLY SERVICE KIT
PMLD4819AS	VHF PRESELECTOR SERVICE KIT 136-154 MHZ
PMLD4820AS	VHF PRESELECTOR SERVICE KIT 150-174 MHZ
PMLE5124AS	UHF PRESELECTOR SERVICE KIT 350-470 MHZ
PMFD4000A	SLR 8000 VHF 136-146 MHZ DUPLEXER SERVICE KIT
PMFD4001A	SLR 8000 VHF 144-160 MHZ DUPLEXER SERVICE KIT
PMFD4002A	SLR 8000 VHF 158-174 MHZ DUPLEXER SERVICE KIT
PMFE4000A	SLR 8000 UHF 403-435 MHZ DUPLEXER SERVICE KIT
PMFE4001A	SLR 8000 UHF 435-470 MHZ DUPLEXER SERVICE KIT
PMLF4212A	SLR 8000 800MHZ DUPLEXER SERVICE KIT
PMLE5152A	SLR 8000 DUPLEXER HARDWARE SERVICE KIT
PMLD4836A	SLR 8000 VHF 136-146 CIRCULATOR SERVICE KIT
PMLD4837A	SLR 8000 VHF 144-160 CIRCULATOR SERVICE KIT
PMLD4838A	SLR 8000 VHF 158-174 CIRCULATOR SERVICE KIT

PMLE5153A	SLR 8000 UHF 403-470 CIRCULATOR SERVICE KIT
PMLF4211A	SLR 8000 800MHZ CIRCULATOR SERVICE KIT

7. Software Licenses

The following software licenses may be required depending on the desired mode of operation and/or additional features. Generally, software licenses require an e-mail address to be inputted at time of order. Fulfillment comes in the form of an Entitlement ID (EID) which is e-mailed to the customer/dealer. Activation/registration of the license is handled via the CPS and/or Radio Management.

HKLN4439A	CAP+ SINGLE-SITE MTR/SLR8000
HKVN4110A	CAP+ MULTI-SITE MTR/SLR8000
HKVN4112A	CAP+ SS TO MS UPGR MTR/SLR8000
HKVN4044A	DYNAMIC MIX MODE MTR/SLR8000
HKVN4243A	DIGITAL VOTING MTR/SLR8000
HKVN4066A	DGTL PHONE PATCH MTR/SLR8000
HKVN4055A	ENHANCED GPS MTR/SLR8000
HKVN4047A	IP REPEATER PROGRAMMING XPR/MTR/SLR
HKVN4178A	RESTR ACCESS MTR/SLR8000
HKVN4366A	DIGITAL LOCAL AUDIO SLR 8000
HKVN4209A	VOICE NETWRK INTRFACE MTR/SLR8000
HKVN4208A	DATA NETWRK INTRFACE MTR/SLR8000
HKVN4362A	SOFTWARE,TRBO CPS DOWNLOAD - CURRENT VERSION
HKVN4324A	CAPACITY MAX ADVANTAGE REPEATER LICENSE
HKVN4488A	NA EXTD RANGE DIRECT MODE SLR