SLR 8000

MOTOTRBO Digital Conventional, Trunking & Analog Conventional Base Station/Repeater

VHF 136-174 MHz and UHF 400-470 MHz

GENERAL INFORMATION

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The Motorola SLR 8000 Series Base Station/Repeater provides a modular, flexible analog and digital station designed for today's communication systems and for the future with an integrated 3A battery charger. The station is available for use in these configurations:

• Analog Conventional
• Digital (MOTOTRBO)
- MOTOTRBO DMR Tier 2 Conventional – Single Site
- Dynamic Mixed Mode
- MOTOTRBO DMR Tier 2 Conventional – IP Site Connect*
- MOTOTRBO Capacity Plus Trunking* #
- MOTOTRBO Linked Capacity Plus Trunking* #
- MOTOTRBO Connect Plus Trunking* #
- MOTOTRBO Digital Voting*
- MOTOTRBO DMR Tier 3 Capacity Max*

**** Premium License Required***
 # Reserved Portfolio

The SLR 5000 series facilitates the field replaceable unit (FRU) concept of field repair to maximize system uptime. The FRU concept also aids in allowing the end user/maintainer to lower their inventory costs. The base model SLR5000 series FRU's are as follows:

- Modem FRU
- Power Amplifier FRU
- Power Supply FRU
- Front Panel FRU

PREMIUM LICENSES:

1. MOTOTRBO IPSC:

The IPSC digital solution uses the internet to extend the coverage of your MOTOTRBO communication system no matter where you are located. You can create wide area coverage and automatically roam from one coverage area to another with no manual intervation. IPSC allows you to connect up to 15 sites through IP network.
One HKVN4029 license is required per repeater.

2. IP Remote Repeater Programming:

IP Repeater Programming allows a system admistrator to provision and to upgrade repeaters within the system utilizing the IP network. This feature is supported on repeaters equipped with a 32 MB memory running on firmware version R1.7 or later. Additionally, the Master repeater of a system configuration must be running on the same firmware version as well. The following services are provided:

• Repeater Configuration
– Read the current repeater configuration;
– Write a modified repeater configuration;
• Repeater Upgrade
– Upgrade repeater firmware and/or codeplug version;
• Repeater Feature Enable
– Activate a purchased feature on the repeater;
One HKVN4051 license is required per CPS, the CPS will be able to connect to one Master at a time and will read/program/upgrade/activate one repeater at a time.

3. Enhanced GPS Repeater License:

The Enhanced GPS Revert channel is an enhancement of the GPS Revert channel functionality that supports higher throughput and increased reliability. Similar to the former feature , a subscriber offloads location responses routed to a server, to a revert channel.
One HKVN4052 license is required per data revert repeater to handle Enhanced GPS updates.

4. Capacity Plus:

When operating in Capacity Plus Mode, MOTOTRBO trunks the logical channels of multiple repeaters at the same location. This allows the radios to share the logical channels, resulting in less waiting time to access the system and increased channel capacity for a given quality of service.
One HKVN4028 license is required per Capacity Plus voice/data or data revert repeater.

5. Linked Capacity Plus:

Linked Capacity Plus is a trunked multisite multi-channel configuration of MOTOTRBO, which combines both the Capacity Plus and IPSC configurations. This combined configuration requires only software updates for radios and repeaters, but does not require any new software, i.e site contoller. Please check the latest System Planner to check minimum requirements for the network backend.
One HKVN4094 license is required per Linked Capacity Plus voice/data or data revert repeater.

6. Digital Telephone Patch:

MOTOTRBO Digital Telephone Patch is a Motorola proprietary feature supporting two types of phone patch calls:
• Individual Phone Patch Call:
– This allows a half-duplex voice communication between a radio user and a phone user. This communication can be initiated from either party;
• Talkgroup Phone Patch Call:
– This allows a half duplex voice communication between a phone user and a group of radio users. This type of communication can be initiated only by the phone; user;
The Digital Telephone Patch utilizes Commercial Off-the-Shelf (COTS) Analog Phone Patch (APP) boxes and is compatible with any DTMF-based APP box that supports 4-wire line interface and can communicate in half duplex mode. The Zetron 30 (Worldpatch) and PL 1877A (MRTI2000) are two examples. Note that only one slot is supported per repeater.
Note 1:
For IPSC, Capacity Plus and Linked Capacity using SmartPTT or TRBOnet Plus there is the possiblity to interconect an IP-PABX cutomer's phone system to the dispatch system server without the need to add Digital Telephone Patch license, also both slots of each repeater could be used simultaneously as a path for telehpone interconnect calls. Although the license is not required on the repeaters, it's on subscribers. If the customer uses Control Station stead of IP network the subscribers must have Transmit Interrupt feature enable in order to Telephone Interconnet work properly. Please refer to subscriber price pages for more information.
Note 2:
For Connect Plus system, the XRI9000 gateway is requred, please refer to Connect Plus infrastructure price pages and System Planner for more information.
One HKVN4067 is required per repeater if 4-wire line interface is required.

7. Restricted Access to System:

The Restricted Access to System (RAS) feature prevents unauthorized subscriber users from using the repeaters in the system to transmit to their targeted user or user groups. The unauthorized subscriber device could be a Motorola subscriber or a DMR-compatible subscriber from other vendors.
One HKVN4186A is required per repeater in the system. This feature is not available for Connect Plus.

8. RDAC Multiple System:

RDAC Multiple System allows you to connect to several systems at the same time.
One HKVN4040 is required per RDAC to connect to more than one system at the same time.

9. Voting:

The digital voting feature is the voting solution for MOTOTRBO digital radio systems. This is available for Digital Conventional Single Site, IPSC, Capacity Plus and Linked Capacity Plus.
One HKVN4247 is required per Voting repeater.

10. NAI Data:

The MNIS (Motorola Network Application Interface) connects with the repeater system using the link establishment procedure of the repeater system. This requires the MNIS to be configured with the Master repeater's IP address and UDP port number. Upon connection with the Master repeater, it discovers the IP addresses and port numbers of all the repeaters in the system. Then, the MNIS estabilishes the link with the repeaters in the system.
Sold & Supported solutions such as SmartPTT PLUS and TRBOnet PLUS dispatch solution uses MNIS to interconnect the server and the repeater through IP network. If a wired dispatch solution will be offered, PLUS solution and MNIS interface is a must.
One HKVN4219 is required per repeater that will be a path for data transmitions such as ARS, TMS, GPS, etc.. For more information please refer to the latest System Planner. For voice only repeaters, NAI Data is need because ARS and TMS is sent on voice channels.

11. NAI Voice:

Similar to NAI Data, is required when wired dispatch solution is needed.
One HKVN4220 is required per repeater that will be a path for voice transmitions. For more information please refer to the latest System Planner.

12. Linked Capacity Plus Upgrade from IPSC:

One HKVN4152A is required per repeater to upgrade from IPSC to Linked Capacity Plus.

13. Linked Capacity Plus Upgrade from Capacity Plus:

One HKVN4153A is required per repeater to upgrade from Capacity Plus to Linked Capacity Plus.