

# MOTOTRBO™ SLR 1000 REPEATER

## COVERAGE WITHOUT COMPLICATIONS



### GENERAL SPECIFICATIONS

|                                | VHF                                                               | UHF         |
|--------------------------------|-------------------------------------------------------------------|-------------|
| Frequency Range                | 136-174 MHz                                                       | 400-527 MHz |
| Channel Spacing                | 12.5 / 20 / 25 kHz                                                |             |
| Frequency Stability            | 0.5 ppm                                                           |             |
| Frequency Generation           | Synthesized                                                       |             |
| Channel Capacity               | 64                                                                |             |
| RF Output Power                | 1-10 W                                                            |             |
| Dimensions* (H x W x D)        | 279 x 229 x 102 mm (11 x 9 x 4 in)                                |             |
| Weight*                        | 4.54 kg (10 lbs)                                                  |             |
| Input Voltage (DC)             | 12 V (11.0-15.5 V)                                                |             |
| Current (standby)              | 0.7 A (0.63 A typical)                                            |             |
| Current (transmitting at 10 W) | 3A (typical)                                                      |             |
| Input Power Modes              | DC only, Optional AC/DC Power Supply Available                    |             |
| Operating Temperature Range    | -30 to +60 °C (-22 to +140 °F)                                    |             |
| Ingress Rating                 | IP65                                                              |             |
| Max Duty Cycle                 | 100%                                                              |             |
| Digital Vocoder Type           | AMBE+2™                                                           |             |
| Connectivity, left side        | Rx (N female)                                                     |             |
| Connectivity, right side       | Tx (N female)                                                     |             |
| Connectivity, bottom           | USB B Receptacle, 1x Ethernet, RJ45 Accessory Connector, DC Input |             |
| Modes of Operation             | Half Duplex / Duplex                                              |             |

### GENERAL SPECIFICATIONS

|                          | VHF                                                                                                                                | UHF            |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Supported System Types   | Digital Conventional, IP Site Connect, Capacity Plus, Capacity Max, Connect Plus. Analogue Conventional, Digital Voting, MPT 1327. |                |
| Audio Levels             | Input: Unbalanced: Adjustable, 80 mV rms nominal for 60% RSD. Output: Unbalanced: Adjustable, 330 mV rms nominal @ 60% RSD.        |                |
| FCC Emission Designators | 11K0F3E, 16K0F3E, 7K60FXD, 7K60F7D, 7K60FXE, 7K60F7E, 7K60F7W, 7K60FXW                                                             |                |
| FCC Type Acceptance      | ABZ99FT3096                                                                                                                        | ABZ99FT4100    |
| IC Description           | 109AB-99FT3096                                                                                                                     | 109AB-99FT4100 |

### RECEIVER

|                                           | VHF                             | UHF             |
|-------------------------------------------|---------------------------------|-----------------|
| Frequency Range                           | 136-174 MHz                     | 400-527 MHz     |
| Sensitivity, 12dB SINAD                   | 0.3 uV (0.22 uV typical)        |                 |
| Sensitivity, 5% BER                       | 0.25 uV (0.18 uV typical)       |                 |
| Selectivity (TIA603D), 12.5 / 20 / 25 kHz | 55 / 83 / 83 dB                 | 55 / 80 / 80 dB |
| Selectivity (TIA603), 12.5 / 20 / 25 kHz  | 68 / 83 / 83 dB                 | 68 / 80 / 80 dB |
| Intermodulation Rejection (TIA603D/ETSI)  | 80 / 70 dB (82 / 73 dB typical) |                 |
| Spurious Rejection (TIA603D/ETSI)         | 85 / 75 dB (95 / 90 dB typical) |                 |
| Audio Distortion                          | < 3% (<1% typical)              |                 |
| Hum and Noise, 12.5 / 20 / 25 kHz         | -45 / -50 / -50 dB              |                 |
| Blocking                                  | -57 dBm                         |                 |

\* Without brackets or other peripheral equipment



| TRANSMITTER                                          |                                     |             |
|------------------------------------------------------|-------------------------------------|-------------|
|                                                      | VHF                                 | UHF         |
| Frequency Range                                      | 136-174 MHz                         | 400-527 MHz |
| RF Output Power                                      | 1-10 W                              |             |
| Max Duty Cycle                                       | 100%                                |             |
| Intermodulation Attenuation                          | 40 dB                               |             |
| Adjacent Channel Power (TIA603D), 12.5 / 20 / 25 kHz | 62 / 78 / 78 dB                     |             |
| Adjacent Channel Power (ETSI), 12.5 / 20 / 25 kHz    | 62 / 78 / 78 dB                     |             |
| Modulation Fidelity 4FSK                             | FSK Error 5%<br>FSK Magnitude 1%    |             |
| Conducted Spurious Emissions                         | -36 dBm < 1 GHz,<br>-30 dBm > 1 GHz |             |
| Audio Response                                       | TIA603D / ETSI                      |             |
| Audio Distortion                                     | <1%                                 |             |
| Hum and Noise, 12.5 / 20 / 25 kHz                    | -45 / -50 / -50 dB                  |             |
| Rated System Deviation, 12.5 / 20 / 25 kHz           | ±2.5 / ±5.0 / ±5.0 kHz              |             |

| ACCESSORIES |                                                     |
|-------------|-----------------------------------------------------|
| HKAE4003    | SLR 1000 antenna, 400-460 MHz                       |
| HKAE4004    | SLR 1000 antenna, 440-495 MHz                       |
| HKAE4005    | SLR 1000 antenna, 490-530 MHz                       |
| HKAD4003    | SLR 1000 antenna, 136-154 MHz                       |
| HKAD4004    | SLR 1000 antenna, 146-164 MHz                       |
| HKAD4005    | SLR 1000 antenna, 160-174 MHz                       |
| PMLN7263    | Extended range antenna switch kit                   |
| HKFE4000    | Duplexer, 400-430 MHz (5-6.5 MHz Tx/Rx spacing)     |
| HKFE4001    | Duplexer, 430-480 MHz (5-6.5 MHz Tx/Rx spacing)     |
| HKFE4002    | Duplexer, 480-527 MHz (5-6.5 MHz Tx/Rx spacing)     |
| HKFE4003    | Duplexer, 400-430 MHz (10 MHz Tx/Rx spacing)        |
| HKFE4004    | Duplexer, 430-480 MHz (10 MHz Tx/Rx spacing)        |
| HKFE4005    | Duplexer, 480-527 MHz (10 MHz Tx/Rx spacing)        |
| HKFD1000    | Duplexer, 136-156 MHz (4-6 MHz Tx/Rx spacing)       |
| HKFD1001    | Duplexer, 154-174 MHz (4-6 MHz Tx/Rx spacing)       |
| HKFD1002    | Duplexer, 136-156 MHz (6-10 MHz Tx/Rx spacing)      |
| HKFD1003    | Duplexer, 154-174 MHz (6-10 MHz Tx/Rx spacing)      |
| PMLN7213    | Pole mount kit                                      |
| BR000143A01 | Wall mount bracket SAE1074                          |
| PMLN7771    | SLR 1000 power adaptor kit for outdoor applications |
| PMLN7773    | SLR 1000 power adaptor kit for indoor applications  |
| 30009477001 | Repeater Programming Cable (USB-A to USB-B)         |



## PRODUCT MEETS:

- ETSI 300-086
- ETSI 300-113
- TIA603D
- CE Marked
- RoHS2-Compliant
- UL Listed
- Digital Protocol ETSI TS 102 361-1, -2, -3 (DMR Tier II and III)

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