ELECTRONIA

ELConnect

SALAAM III – SBS

BASE STATION / REPEATER

STANDARD FEATURES

FULL BAND COVERAGE

VHF high band 140 - 174 MHz

- Without performance degradation.
- Without splits.
- Without tuning.
- The ultra sensitive receiver ensures that these radios provide better coverage than other similar radios.
- These fully synthesized radios feature per channel basis programming of power and channel spacing (12.5 kHz / 25 kHz).

EIA / TIA 603 COMPLIANT

All Base Stations are subject to stringent tests as per EIA / TIA 603 standards before dispatch. The radios are designed into 9U chassis, facilitating transportation to remote locations.

Electronia's Salaam-III series Base Station is designed for continuous duty operation in the harshest of environments and operating conditions.

PROTECTION & DIAGNOSTICS

- Protection against main power surge.
- Protection against high VSWR and temperature.
- Built in battery change over circuit.

Technical Specifications

GENERAL

Frequency Range	140 – 174 MHz (Without split)
No of Channels Selectable	128 channels(In PLL steps of 25, 12.5, 6.25, 5KHz)
Configuration	Base Station / Repeater
Channel Spacing	25 kHz or 12.5 kHz (Programmable per Channel basis)
Channel Guard	39 EIA CTCSS Tones
Power Supply	110 / 220 Volts AC at 60/50Hz
Protection	Against input line transients and overload
Battery backup	12 Volts DC Nominal
Power Consumption	450 watts maximum
Operating Temperature	0 ° C to +60 ° C
Humidity	90% at 50 ° C
Dimensions	520 x 400 430mm (LxBxH)

TRANSMITTER SPECIFICATIONS (Measurements carried out as per TIA / EIA – 603)

RF Power Output	100 Watts adjustable to 10 watts
Duty Cycle	Continuous with forced air cooling
Frequency Stability	± 5 PPM
Modulation Limiting	± 5 kHz or ±2.5 kHz
RF Output impedance	50 Ohms
Spurious Emission	Better than 65 dBC
FM Noise	Better than 40 dB @25 kHz Better than 34 dB @12.5 kHz
Audio Distortion	Less than 5% at 1 kHz with 3/1.5 kHz deviation

RECEIVER SPECIFICATIONS (Measurements carried out as per TIA / EIA – 603)

Sensitivity	Better than 0.25 µ Volts for 12 dB SINAD
Frequency Stability	± 5 PPM
RF Input impedance	50 Ohms
Adjacent Channel Rejection	Better than 70 dBC @25 kHz Better than 60 dBC @12.5 kHz
Spurious and Image rejection	Better than 70 dBC
Audio Output	1 Watt across 8 Ohms Speaker
Audio Distortion	Less than 5% at 1 kHz with 3/1.5 kHz deviation

OPTIONS

- TONE REMOTE CONTROL
- Tx / Rx SWITCH
- FIELD PROGRAMMING UNIT

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