



Eyal Microwave Ltd.

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# Specification For

## RF Distribution Unit

### MODEL: RFDU-2598-00

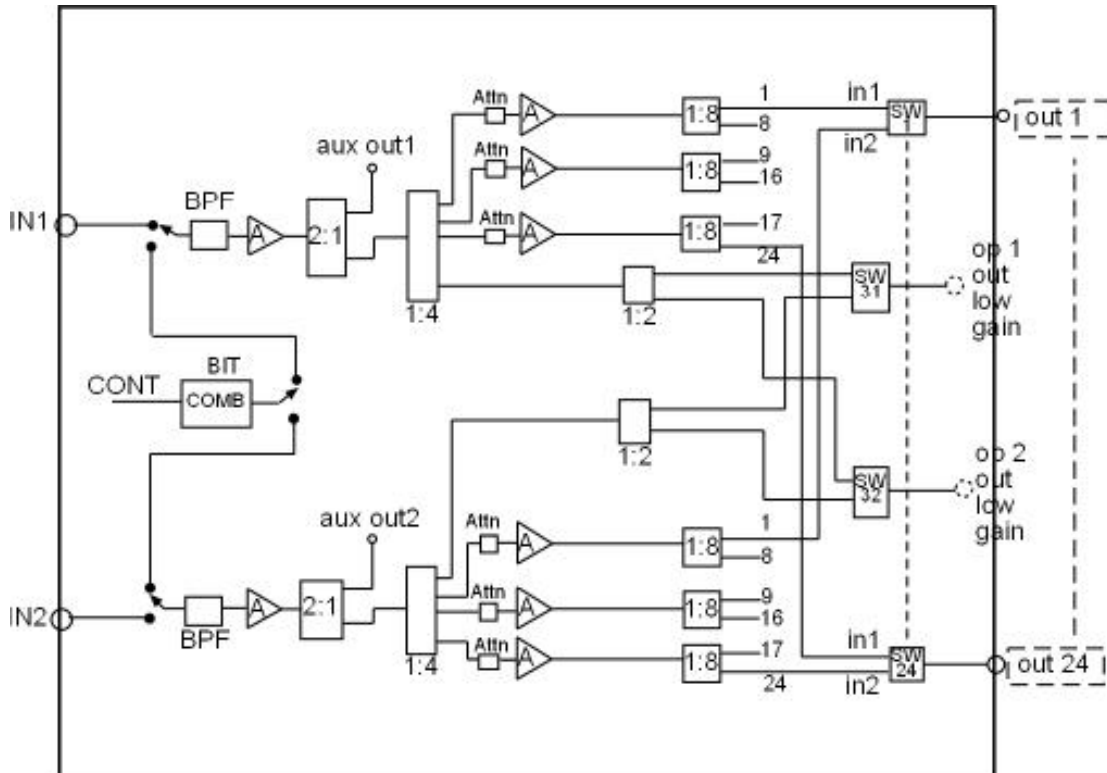
The distribution assembly receives HF/RF inputs from 2 monitoring antennas and amplifies the signals using high dynamic-range amplifiers that compensate for the losses in the RF chain, improves the noise figure with minimum effect on the total dynamic range, and divides the signals among 24 receivers. The design supports future expansion up to 32 or 64 receivers using parallel operation of two assemblies. The assembly includes BIT circuitry for providing end-to-end failure detection.



## HF RF Distribution Unit Definition

The HF RF Distribution assembly consist on switching between two MFE monitoring antennas, amplifying and splitting the input signal to up to 24 receivers in the frequency range of 1.5 to 30 MHz. The design also supports future expansion up to total 32 receivers or 64 receivers using parallel operation of two RFDU drawers. Output no 31 & 32 will have the option of low gain. The RFDU includes BIT circuitry, providing end to end failures detection.

## HF RF Distribution Unit Block Diagram





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## SPECIFICATION

### Interface Definition

#### Inputs

2 RF inputs SMA female connectors.

#### Outputs

All RF outputs BNC female connectors.

### Output Signal

The Comb generator output signal 2 MHz spacing comb signal, where each harmonic frequency at a power level: -90 dBm minimum

At each NB RF output. - 75 dBm maximum at each NB RF output.

### Remote Control

#### Connector

The remote control connector - 15 pin, DType

#### Remote Control Format

The remote lines accordance with the RS-422 protocol standard.

Default: Antenna I selected for each receiver and the Comb Generator - Power off.

### Input Power

230 V AC +/-10% 50 Hz.

Maximum input power: (70) Watts.



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## **Electrical specification**

Frequency Range:..... 1.5÷30 MHz

Gain: ..... 12 dB min ; 16 dB max

Option outputs: 5 dB min ; 8dB max

Noise Figure:..... 7 dB max

Option outputs: 6 dB max

IP2..... 50 dBm

Option outputs: 60 dBm

IP3..... 18 dBm

Option outputs: 22 dBm

Impedance:..... 50Ω

BIT (comb generator)

2 MHz spacing comb signal harmonics at -90dBm min & -75dBm max

## **Mechanical Dimension:**

19" X 3U