

UHF system with Integrated Antenna Power Monitor

The UHF system is designed for Public Safety Critical Communication.

It features:

- Cavity combiner
- Tx-filter
- Frequency selective power monitor
- RMC

The system is available as 3 ch, 4 ch, 5 ch, and 6 ch configurations for single band or dual-band operation.

The frequency selective antenna power monitor is integrated in the system and is Ethernet / SNMP / SYSLOG enabled providing information such as: forward power, reflected power, antenna VSWR, heat sink temperature.

The integrated DPM enables easy factory or field tuning using only the base station radio and a PC.

SNMP alarm and SYSLOG will be generated upon high antenna VSWR and high temperature. All alarms are user configured through Ethernet or SNMP.

Tx-filters are milled hence PIP rated and PIM hardened.

Pre-selectors are milled for superior rejection close to the pass-band.

In a dual band system, any no. of channels can be assigned to either band.



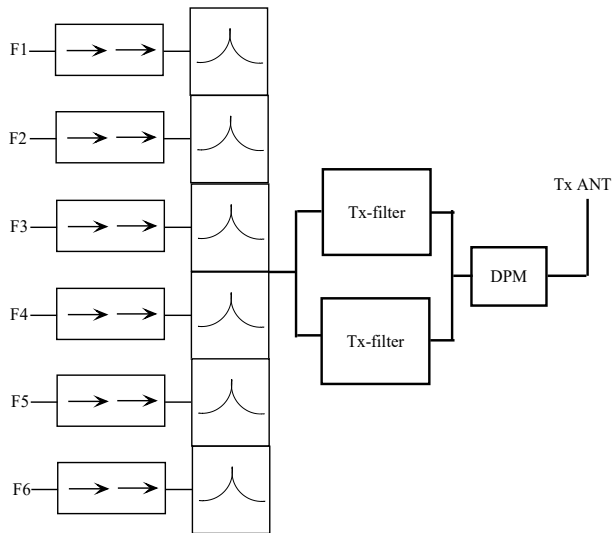
6 ch. UHF dual band system

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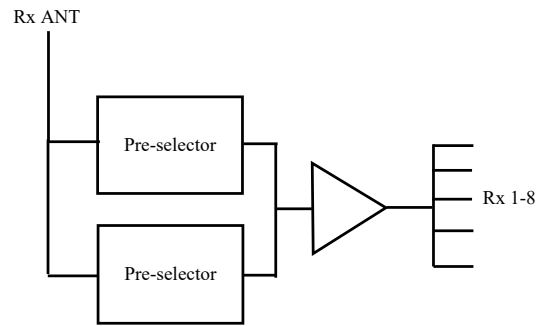
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TX RX Systems

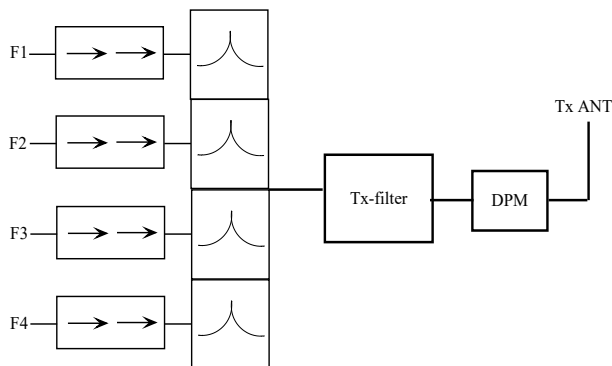
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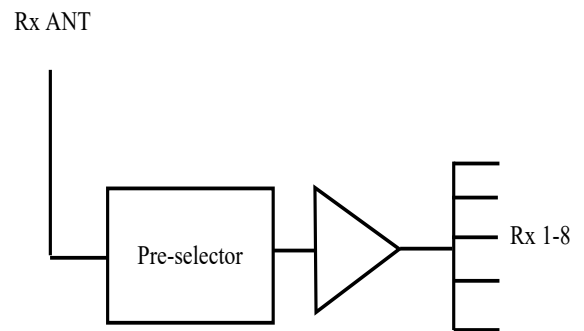
Tx-path, dual band configuration



Rx-path, dual band configuration



Tx-path, single band configuration



Rx-path, single band configuration

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Specification, System

450-470 MHz

Other bands on request

Part Numbers

CP01052
 CP01053
 CP01054
 CP01055
 CP01047
 CP01048
 CP01049
 CP01050

Description

3 ch system, single band
 4 ch system, single band
 5 ch system, single band
 6 ch system, single band
 3 ch system, dual band
 4 ch system, dual band
 5 ch system, dual band
 6 ch system, dual band

Specification

Minimum spacing
 Input power
 Insertion loss, 3, 4 ch
 Insertion loss, 5, 6 ch
 Tx filter band width
 Tx to Rx selectivity
 Tx-Tx isolation
 Input return loss
 Output return loss
 Operating temp.
 Connectors, inputs
 Connector, output

Tx-path

150 kHz
 100 W / ch
 3.4 dB typ
 3.7 dB typ.
 4 MHz
 45 dB (1 MHz away)
 >60 dB
 >20 dB
 >10 dB
 -30°C to 60°C
 N-female
 7-16 female

Specification

Power supply
 Interfaces
 Inputs
 Functions and alarms

Power Monitor (DPM)

110V/230VAC
 Integrated web-server
 SNMP v2C, SYSLOG
 Temperature sensors
 Cavity tuning
 Forward power (per cavity)
 Reflected power (per cavity)
 Antenna VSWR (per cavity)
 Heat sink temperature
 SNTP, Firmware update
 Factory test data
 Dry contact alarm

Features

Alarm output

Specification

Rx filter band width
 Rx to Tx selectivity
 Gain
 Noise figure
 IIP3

Rx-path

4 MHz
 65 dB (1 MHz away)
 5 to 15 dB, 1 dB step
 2.7 dB
 12 dBm

Specification

Power supply
 Interfaces
 Functions
 Features

RMC

110V/230VAC
 Integ. web-server, display
 SNMP v2C, SYSLOG
 Gain setting
 SNTP, Firmware update
 Factory test data
 Dry contact alarm

Alarm output

Dimensions (single band)

System 3, 4 ch 19", 11U, 14" deep
 System 5, 6 ch 19", 15U, 14" deep

Dimensions (dual band)

System 3, 4 ch 19", 13U, 14" deep
 System 5, 6 ch 19", 17U, 14" deep

Weight

80 lbs
 100 lbs

100 lbs
 120 lbs

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