

Stand-alone frequency selective power monitor

Available in VHF, UHF, 7/800 MHz, and 900 MHz bands

- Frequency selective
- Supports up to 10 carriers of 50W each
- Intermodulation hardened
- Compact form factor
- Power monitor is Ethernet / SNMP enabled / SYSLOG
- Measures Forward & Reflected power, antenna VSWR, temperature
- Alarms are user configured via Ethernet or SNMP



Combilent

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TX RX Systems

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Specification, System

VHF model	136-154 MHz
VHF model	150-174 MHz
VHF model	150-174 MHz
UHF model	380-400 MHz
UHF model	380-400 MHz
UHF model	403-440 MHz
UHF model	403-440 MHz
UHF model	440-470 MHz
UHF model	440-470 MHz
UHF model	440-470 MHz
7/800 MHz model	763-775 MHz / 851-869 MHz
7/800 MHz model	763-775 MHz / 851-869 MHz
7/800 MHz model	763-775 MHz / 851-869 MHz
900 MHz	935-941 MHz
900 MHz	935-941 MHz

Specification	RF part
Input power	10*50 W (25 kW PIP)
Insertion loss	<0.15 dB
Input return loss	>20 dB
Output return loss	>20 dB
IM 3 rd , 5 th order	<-150 dBc at 2*43 dBm
Operating temp.	-30°C to 60°C
Connectors	7-16 or 4.3-10 female
Dimensions	19", 2U, 10" deep
Weight	10 lbs
Drawing	OD19781

Product options

	Power supply	Connector
CP01137	AC	7-16
CP01116	AC	7-16
CP01126	DC	7-16
CP01123	AC	7-16
CP01134	DC	7-16
CP01124	AC	7-16
CP01135	DC	7-16
CP01109	AC	7-16
CP01127	DC	7-16
CP01139	AC	4.3-10
CP01110	AC	7-16
CP01128	DC	7-16
CP01140	AC	4.3-10
CP01120	AC	7-16
CP01129	DC	7-16

Specification
Power supply
Interfaces
Alarm output
Functions and alarms

Features

Power Monitor (DPM)
AC mains or -48VDC, 150 mA
Integrated web-server
SNMP v1/2C with MIB file
Dry contact
Forward power / frequency
Reflected power / frequency
Antenna VSWR / frequency
Insertion loss / frequency
Temperature
SNTP
SYSLOG
Firmware update
Factory test data

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Dashboard





Home
Combiner status
Network config
SNMP config
Syslog config
System event log
Firmware
Test info

Combiner status - Online

Cavity	Enable	Frequency	Input Pwr dBm	Calibrated Pwr dBm/W	Insertion loss dB	Output Pwr dBm/W	Returnloss at ANT dB
1	<input checked="" type="checkbox"/>	460.0250	49.0	47.3 / 53.7	0.0	0.0 / 0.0	0.0
2	<input checked="" type="checkbox"/>	461.1500	48.0	47.2 / 52.4	0.0	0.0 / 0.0	0.0
3	<input checked="" type="checkbox"/>	462.2750	48.0	47.3 / 53.7	0.0	0.0 / 0.0	0.0
4	<input checked="" type="checkbox"/>	463.2000	48.0	47.3 / 53.7	0.0	0.0 / 0.0	0.0
5	<input checked="" type="checkbox"/>	464.0000	48.0	47.3 / 53.7	0.0	0.0 / 0.0	0.0
6	<input type="checkbox"/>	0.0000	0.0	0.0 / 0.0	0.0	0.0 / 0.0	0.0
7	<input type="checkbox"/>	0.0000	0.0	0.0 / 0.0	0.0	0.0 / 0.0	0.0
8	<input type="checkbox"/>	0.0000	0.0	0.0 / 0.0	0.0	0.0 / 0.0	0.0
9	<input type="checkbox"/>	0.0000	0.0	0.0 / 0.0	0.0	0.0 / 0.0	0.0
10	<input type="checkbox"/>	0.0000	0.0	0.0 / 0.0	0.0	0.0 / 0.0	0.0

Combiner output power (antenna)	Top of rack output power	Board temp.
0.0 / 0.0	0.0 / 0.0	14.9

Temp. sensor 1	Temp. sensor 2	Temp. sensor 3	Temp. sensor 4	Temp. sensor 5
Sensor error	Sensor error	Sensor error	Sensor error	Sensor error

Parameter configuration:

Cavity	Enable	Frequency	Input power dBm	Calibrate	Adjust
1	<input checked="" type="checkbox"/>	460.0250	49.0	Calibrate	Adjust
2	<input checked="" type="checkbox"/>	461.1500	48.0	Calibrate	Adjust
3	<input checked="" type="checkbox"/>	462.2750	48.0	Calibrate	Adjust
4	<input checked="" type="checkbox"/>	463.2000	48.0	Calibrate	Adjust
5	<input checked="" type="checkbox"/>	464.0000	48.0	Calibrate	Adjust
6	<input type="checkbox"/>	0.0000	0.0	Calibrate	Adjust
7	<input type="checkbox"/>	0.0000	0.0	Calibrate	Adjust
8	<input type="checkbox"/>	0.0000	0.0	Calibrate	Adjust
9	<input type="checkbox"/>	0.0000	0.0	Calibrate	Adjust
10	<input type="checkbox"/>	0.0000	0.0	Calibrate	Adjust
Change					

Setting	Value
Returnloss alarm threshold (dB)	12.0
Temp. sensor 1 enabled	<input checked="" type="checkbox"/>
Temp. sensor 2 enabled	<input checked="" type="checkbox"/>
Temp. sensor 3 enabled	<input checked="" type="checkbox"/>
Temp. sensor 4 enabled	<input checked="" type="checkbox"/>
Temp. sensor 5 enabled	<input checked="" type="checkbox"/>
Output power additional loss (0 - 10dB)	0.5
Board temperature warning level (0 - 100C)	60
Board temperature alarm level (0 - 100C)	80
Load temperature warning level (0 - 100C)	60
Load temperature alarm level (0 - 100C)	80
Change	

Alarm relay config
<input checked="" type="checkbox"/> Cav1Alarm
<input checked="" type="checkbox"/> Cav2Alarm
<input checked="" type="checkbox"/> Cav3Alarm
<input checked="" type="checkbox"/> Cav4Alarm
<input checked="" type="checkbox"/> Cav5Alarm
<input checked="" type="checkbox"/> Cav6Alarm
<input checked="" type="checkbox"/> Cav7Alarm
<input checked="" type="checkbox"/> Cav8Alarm
<input checked="" type="checkbox"/> Cav9Alarm
<input checked="" type="checkbox"/> Cav10Alarm
<input checked="" type="checkbox"/> BoardTemp
<input checked="" type="checkbox"/> TempSensor1
<input checked="" type="checkbox"/> TempSensor2
<input checked="" type="checkbox"/> TempSensor3
<input checked="" type="checkbox"/> TempSensor4

Description

Combiner status page.

Combiner status section:

Power readings displayed as dBm / Watt.

Combiner output power = calculated value, calculated from all channels forward power

Returnloss = antenna returnloss

Top of rack output power = combiner output power - additional loss

Temperature readings are in degrees celsius.

Field background colors:

Forward power.

Green = $|\text{CalPwr-FwdPwr}| < 0.5\text{dB}$

Yellow = $|\text{CalPwr-FwdPwr}| < 1\text{dB}$

Red = $|\text{CalPwr-FwdPwr}| > 1\text{dB}$

Returnloss.

White = no alarm

Red = Alarm active

Temp. sensor temperature.

Board Temperature.

White = no alarm

Gold = Warning active

Red = Alarm active

Combiner parameter section:

Return loss alarm limit.

Output power additional loss.

input post combiner loss here.

Board temperature warning level.

Board temperature alarm level.

Temp. sensor warning level.

Temp. sensor alarm level.

Temperature limits are in degrees celsius.

Device information.

Serial number information.