

## UHF Transmit Combiner with Integrated Antenna Power Monitor

Available in the UHF 380-512 MHz bands.

The combiner features a compact 7RU form which includes the integrated, frequency selective antenna power monitor (DPM) in the base 4 channel configuration.

The combiner is designed to work together with a Tx-filter (DS18825) and the power monitor functionality is split between the combiner holding the electronics and the Tx-filter holding the directional coupler at the antenna port.

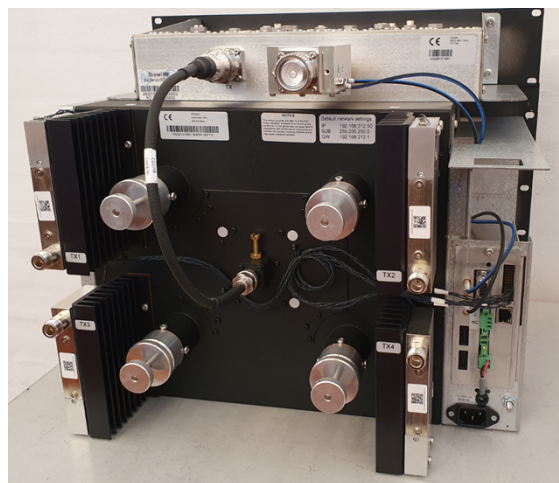
The power monitor is Ethernet / SNMP / SYSLOG enabled providing information such as: forward power, reflected power, antenna VSWR, heat sink temperature.

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

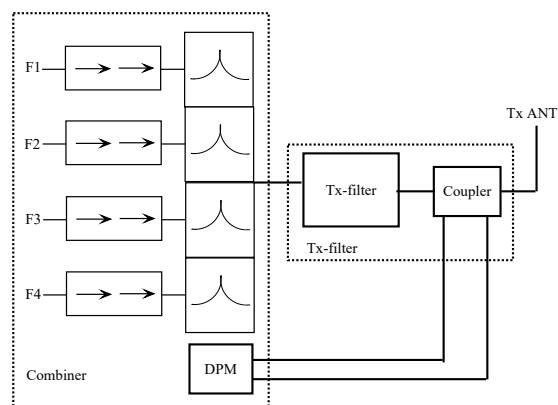
SNMP alarm and SYSLOG will be generated upon high antenna VSWR and high temperature. All alarms are user configured through Ethernet or SNMP.

All modules are broad band (20 MHz) and symmetrical.

The base configuration is 4 channels with DPM and it can be expanded by 2 channels or 4 channels.



**4 ch. Combiner, Tx-filter & Digital Power Monitor**



**Schematic**  
**4 ch. Combiner, Tx-filter & Digital Power Monitor**

### Combilent

Ryttermarken 5, 3520 Farum, Denmark  
[sales@combilent.com](mailto:sales@combilent.com) [www.combilent.com](http://www.combilent.com)

### **Specification, System**

410-430 MHz  
410-430 MHz  
410-430 MHz  
450-470 MHz  
450-470 MHz

Other bands on request  
20 MHz tuning range

### **Part Numbers**

CP02258  
CP02259  
CP02298  
CP02221  
CP02222

### **Description**

4 ch combiner with DPM 420 MHz  
2 ch expansion 420 MHz  
4 ch expansion 420 MHz  
4 ch combiner with DPM 460 MHz  
2 ch expansion 460 MHz

### **Specification**

Minimum spacing  
Input power  
Insertion loss, 4 ch  
Insertion loss, 8 ch  
Tx-Tx isolation  
Input return loss  
Output return loss  
Operating temp.  
Connectors, inputs  
Connector, output

Dimensions, 4 ch  
Dimensions, 2 ch  
Weight, 4 ch  
Weight, 2 ch  
Drawing, 4 ch  
Drawing, 2 ch

### **Combiner**

150 kHz  
100 W / ch  
3.4 dB typ  
4.0 dB typ.  
>60 dB  
>20 dB  
>10 dB  
-30°C to 60°C  
N-female  
N-female (combiner)  
7-16 or 4.3-10 (Tx-filter)  
19", 7U, 14" deep  
19", 4U, 14" deep  
40 lbs  
20 lbs  
OD14461  
OD13605

### **Specification**

Power supply  
Interfaces

Inputs  
Functions and  
alarms

Features

Alarm output

### **Power Monitor (DPM)**

110V/230V AC  
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

## **Combilent**

Ryttermarken 5, 3520 Farum, Denmark  
[sales@combilent.com](mailto:sales@combilent.com) [www.combilent.com](http://www.combilent.com)