



DS18994. October 31, 2019

## 700 MHz, 800 MHz Ceramic Transmit Combiner with Integrated Antenna Power Monitor

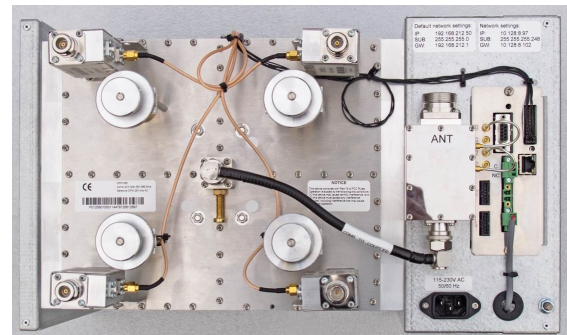
Available in the 700 MHz, 800 MHz, and 900 MHz public safety bands.

The combiner features a compact 6RU form which includes the integrated frequency selective antenna power monitor (DPM) in the base 4 channel configuration

The antenna power monitor is integrated in the unit 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.



## 4 Ch. Combiner & Digital Power Monitor

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

700 MHz and 800 MHz can be combined within the same system i.e. 4 channels 700 MHz and 2 channels 800 MHz.

All modules are broad band and symmetrical.

### Combilent

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<u>Part number</u>	<u>Description</u>	<u>Power supply</u>
CP02261	4 CH, 763-776 MHz, DPM	AC
CP02262	4 CH, 763-776 MHz, DPM	DC
CP01243	2 CH expansion, 763-776 MHz	-
CP01242	4 CH expansion, 763-776 MHz	-
CP02263	4 CH, 851-869 MHz, DPM	AC
CP02264	4 CH, 851-869 MHz, DPM	DC
CP01245	4 CH expansion, 851-869 MHz	-
CP01246	2 CH expansion, 851-869 MHz	-
CP01288	4 CH, 935-941 MHz, DPM	AC
CP02260	4 CH, 935-941 MHz, DPM	DC
CP02225	4 CH expansion, 935-941 MHz	-
CP02224	2 CH expansion, 935-941 MHz	-

<u>Specification</u>	<u>Combiner</u>	<u>Specification</u>	<u>Power Monitor (DPM)</u>
<b>700 MHz Model</b>	763-776 MHz	<b>Power supply</b>	110V/230VAC or -48VDC
<b>800 MHz Model</b>	851-869 MHz	<b>Interfaces</b>	Integrated web-server
<b>900 MHz Model</b>	935-941 MHz	<b>Inputs</b>	SNMP v2C
<b>Minimum spacing</b>	150 kHz	<b>Functions and alarms</b>	Temperature sensors
<b>Input power</b>	100 W / ch	<b>Features</b>	Cavity tuning assist
<b>Insertion loss</b>	See table below	<b>Alarm output</b>	Forward power (per cavity)
<b>Tx-Tx isolation</b>	>60 dB		Reflected power (per cavity)
<b>Input return loss</b>	>20 dB		Antenna VSWR (per cavity)
<b>Output return loss</b>	>10 dB		Heat sink temperature (3 pcs.)
<b>Operating temp.</b>	-30°C to 60°C		SNTP
<b>Connectors, inputs</b>	N-female		Firmware update
<b>Connector, output</b>	7-16 female		Factory test data
<b>Dimensions, 4 ch</b>	19", 6U, 14" deep		Dry contact alarm
<b>Dimensions, 2 ch</b>	19", 3U, 14" deep		
<b>Weight, 4 ch</b>	50 lbs		
<b>Weight, 2 ch</b>	25 lbs		
<b>Drawings</b>	CP02260/02261/02262/02263/02264/01288:		
	CP01243/01246/02224		
	CP01242/01245/02225		

**Insertion loss**

<b>No. of ch / spacing</b>	<b>150 kHz</b>	<b>300 kHz</b>	<b>400 kHz</b>	<b>500 kHz</b>	<b>1 MHz</b>
<b>4 ch</b>	3.4 dB	3.0 dB	2.9 dB	2.8 dB	2.7 dB
<b>6 ch (4+2)</b>	3.7 dB	3.2 dB	3.1 dB	3.0 dB	2.8 dB
<b>8 ch (4+4)</b>	4.2 dB	3.4 dB	3.1 dB	3.0 dB	2.8 dB
<b>10 ch (4+4+2)</b>	4.5 dB	3.6 dB	3.3 dB	3.2 dB	3.0 dB

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