

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

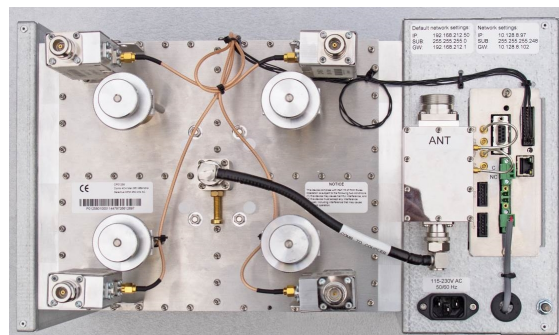
Available in the 700 MHz, 800 MHz, and 900 MHz public safety bands.

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 A/S

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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>
700 MHz Model	763-776 MHz	Power supply	110V/230VAC or -48VDC
800 MHz Model	851-869 MHz	Interfaces	Integrated web-server
900 MHz Model	935-941 MHz		SNMP v2C
Minimum spacing	150 kHz	Inputs	Temperature sensors
Input power	100 W / ch	Functions and alarms	Cavity tuning assist
Insertion loss	See table below		Forward power (per cavity)
Tx-Tx isolation	>60 dB		Reflected power (per cavity)
Input return loss	>20 dB		Antenna VSWR (per cavity)
Output return loss	>10 dB	Features	Heat sink temperature (3 pcs.)
Operating temp.	-30°C to 60°C		SNTP
Connectors, inputs	N-female		Firmware update
Connector, output	7-16 female		Factory test data
Dimensions, 4 ch	19", 6U, 14" deep	Alarm output	Dry contact alarm
Dimensions, 2 ch	19", 3U, 14" deep		
Weight, 4 ch	50 lbs		
Weight, 2 ch	25 lbs		
Drawings	CP02260/02261/02262/02263/02264/01288: OD17459.pdf		
	CP01243/01246/02224 : OD17462.pdf		
	CP01242/01245/02225 : OD18753.pdf		

Insertion loss

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

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