

Dual-Band Antennas

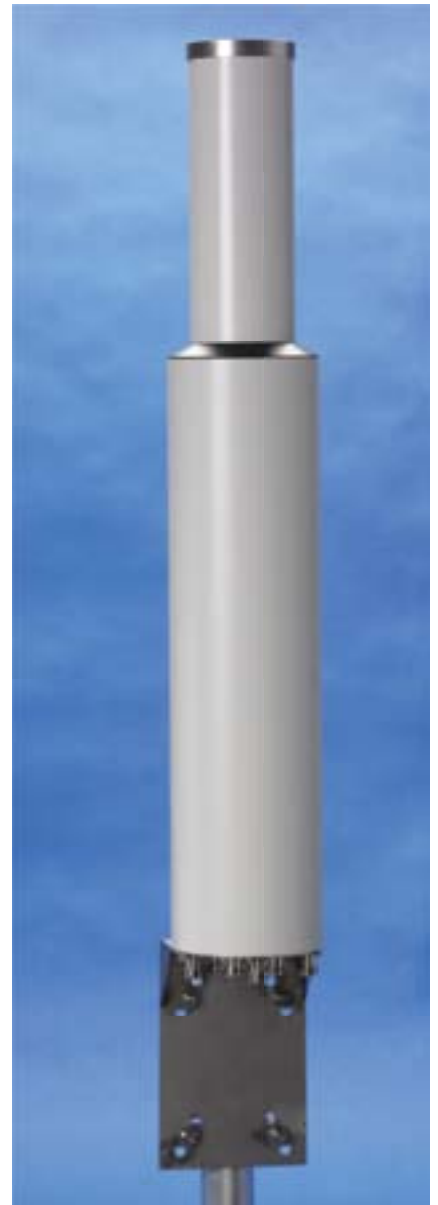
In situations where there is limited space to site new antennas, and especially in circumstances where both 2 GHz and 6/7 GHz band antennas are required, it can be advantageous to have a dual-band antenna, i.e. two antennas in one housing. Peak Antennas has designed dual band Compact Sector and Quad-Sector array antennas for these instances. The 6/7 GHz antenna arrays are housed above the 2 GHz arrays within a common structure.

Designation:	SCR225/675-12/12
Frequency:	2.0-2.5 and 6.4-7.1 GHz
Gain:	12/12 dBi
Polarization:	Vertical
Azimuth B/W:	110 / 110 degrees
Elevation B/W:	18 / 18 degrees
Length:	682 mm
Diameter:	54 mm / 27 mm
Connectors:	N female (x2)
Mounting:	Stainless steel bracket and U bolts (provided)

Designation:	QSA225/675-12/12
Frequency:	2.0-2.5 and 6.4-7.1 GHz
Gain:	12 (x4) / 12 (x4) dBi
Polarization:	Vertical
Azimuth B/W:	110 degrees (x4) / 110 degrees (x4)
Elevation B/W:	18 degrees (x4) / 18 degrees (x4)
Length:	710 mm
Diameter:	118 mm / 81 mm
Connectors:	N female (x8)
Mouting:	Stainless steel bracket and U bolts (provided)



SCR225/675-12/12



QSA225/675-12/12

PEAK ANTENNAS

www.peakantennas.com

Peak Antennas LLC
200 Main St., Unit 3A
Monroe, CT 06468 USA
Tel/Fax: +1 203 268 3688
Email: MDPeakantennas@aol.com,
info@peakantennas.com

Outlook / Uplook Combination Antennas

At Peak Antennas, we engineer all aspects of our products ourselves, from the radiating elements to the structural details, machined parts, circuit boards, and internal layouts. This gives us the flexibility to design new antennas **to suit specific customer requirements**. In answer to such requests, we have designed a number of combined antenna systems for air-to-ground applications where a single antenna type cannot produce a wide enough range of elevation angle coverage while maintaining a high enough gain. These antennas enhance a system's ability to cover both the horizon (where higher path losses require higher gains) and all overhead angles, by integrating QHO or XDU uplook antennas above CP Omni or High Gain vertically polarized Omni array antennas. For diversity receive situations the antennas have two RF connectors, and for switchable transmit applications there is one RF connector and a DC control connector.

Please contact us if you have a requirement that would benefit from such a combination antenna.



CO250-11/QHO260-R combination antennas each with dual RF connectors. This 4-way diversity system receives a transmission from a helicopter that can be far out at the horizon or close in and overhead. The helicopter was equipped with a vertically polarized PA16 steerable array antenna with an integrated RHCP downlook antenna selectable by RF switch.



CPO235-4.5-R/QHO230-R combination antenna, with single RF connector and DC control connector. The antenna has an internal PIN diode RF switch.



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info@peakantennas.com