

Super Efficient Towers

SET™



RI's towers all have unique performance characteristics. The design is modular and have a very low wind resistance and a very high pay-load EPA to weight ratio. This is essential to deliver 4G LTE and high speed data, relative to GSM voice only. The traffic will be more than 6,000 times greater per customer than voice traffic.

Energy requirements per customer are much lower than a standard site. Power consumption is reduced by increased antenna-gain, higher towers and top mounted RRHs. Power to the RRH and to the BTS can be locally generated by solar and wind power, giving up 97% self-sufficient green sites.

Contact us at +46 8 750 78 30 or visit [radioinnovation.net](http://radioinnovation.net) for more information

Mechanical	Dimension	STD+STD ant	SET+SAS	SET+SAS	Guyed SET+SAS	Guyed SET+SAS
Tower top height ( $h_a$ )	m	50	50	118	240	320
Antennas+RRH floors 2,5m (H)	qty	3	8	16	24	32
Antenna 0,35m around (N)	qty	6	36	48	60	60
Antenna diameter and platform (Dy)	m	-	4.1	5.3	6.5	6.5
Antenna rooms H=2.5m P=H×N	qty	18	288	768	1,44	1,92
EPA <sub>TOT</sub> of Tower + Antennas	m <sup>2</sup>	25	49	127	234	312
PA <sub>antennas</sub>	m <sup>2</sup>	13	49	127	234	312
Tower weight typical (W)	ton	10	22	80	56	80
Performance 1, EPA <sub>ant</sub> × $h_a^{2,2} / W$	m <sup>4,2</sup> /kg	7.1	29	108	720	1,266
Performance 2, $G_x \times RRH_{ports} \times h_a^{2,2} / W$	m <sup>2,2</sup> /kg	1,24	133,083	518,816	3,510,462	6,169,733
Performance 2, Relative	qty	1	107	418	2,831	4,976