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## For next generation of radio networks: **Triple Band Optimized New 12- and 8-Port Antennas**

Cellmax new 12- and 8t-port platforms ,1207xx and 1209xx, further enhance CellMax world record efficiency levels and allows for more than 18 dBi on the low band and up to 21.6 dBi on the midband. The first release of these new products goes from 698 to 2690 MHz and will later be released to support both L-band and 600.

With a higher antenna gain the coverage area is increased and fewer sites need to be deployed, rendering massive CAPEX and OPEX savings for the operators.

The increased mid/high-band coverage allows for a higher level of aggregation between the available frequency bands, allowing the subscribers to use more bandwidth and hence enjoy higher throughput levels.



### **Energy Efficiency**

Today, operators lose millions of kWh as heat in traditional base station antennas. By using the high-efficiency antennas from CellMax an operator can maintain today's coverage even if you decrease your output power on site. Allow for increased subscriber satisfaction and enhanced throughput during busy hours, and use the new features enabled by the triple band radio's to reduce transmitted power during off busy hours. Our antennas allow you not only to save the planet and associated cost while off-busy hours but still maintain great service and access to your customers.

### **Increased Satisfaction**

The improved traffic distribution between low band and mid band that comes with Cellmax antennas, allows for more connections, fewer dropped calls and higher throughput on the low band while increasing coverage, indoor penetration and data throughput on the high band. This means increased subscriber satisfaction and higher revenues.

Looking at the total costs of ownership end-to-end, this antenna is the natural choice. By improving coverage, frequency utilization and data throughput, this antenna improves and maximizes existing assets. The platform supports 4X4 MIMO for both mid band and low band.

### **Antenna Characteristics**

12-Port / 8-Port Multiband Antennas

- 4 x 698- 960 MHz
- 8 x 1695-2690 MHz (8-port antennas: 4 x 1695-2690 MHz)
- Low band gain 18.2 dBi
- High band gain 21.6 dBi

- PIM -160 dBc
- Maximum coverage
- Maximum indoor penetration
- Maximum data transaction throughput and speed

## **About CellMax**

CellMax Technologies AB, founded in 2001, is a privately owned company that develops and markets high efficiency base station antennas for mobile networks. CellMax headquarter and state of the art research facility is located in Stockholm Kista, the center of IT and Telecom in Sweden and is member of the Rosenberger group.

## **About Rosenberger**

Rosenberger is one of the world's leading manufacturers of impedance-controlled and optical interconnect solutions in high-frequency, high-voltage and fibre-optic technology.

The product range covers RF coaxial connectors, components and accessories, RF measurement products as well as cable assemblies for mobile communication networks, data centres, industrial test & measurement, automotive electronics as well as for high-voltage contact systems, medical and industrial electronics as well as aerospace engineering. The Custom machining division manufactures customer-specific precision parts from all machinable materials for various industries such as the automotive and commercial vehicle industry, ship building or classic mechanical and plant engineering.

Worldwide, the Rosenberger Group operates manufacturing and assembly locations as well as Rosenberger sales offices in Europe, Asia and North and South America where – in total – approx. 14,200 employees develop, produce and sell our products. In 2022, the Rosenberger Group achieved global sales of 1.760 billion €.

Rosenberger Hochfrequenztechnik GmbH & Co. KG with its headquarters in Fridolfing/Germany, where more than 3,100 people are employed today, was founded in 1958 and has been family-owned ever since.

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