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DOUBLE TMA 2100, ASC

ANTENNA SYSTEM CONTROLLLER

Improving the radio uplink by using Tower Mounted Amplifiers (TMA) is perceived as a key method of optimizing radio networks. By ensuring maximum coverage, including in-door penetration, the TMA supports the design of cost-efficient networks with extended handsets talk time, low dropped call rates and high traffic billing.

System integration
The ASC is mounted in the tower close to the antenna and used in the receiving paths in order to lower the overall receiver noise figure. The ASC controls communication, gain setting and alarm handling. It provides Remote Electrical Tilt (RET) interface functionality. Operating supervision is provided via the BTS and OSS-RC.

The TMA RF characteristics are optimized relative to the RBS 3000 and its joint performance is system verified and approved.

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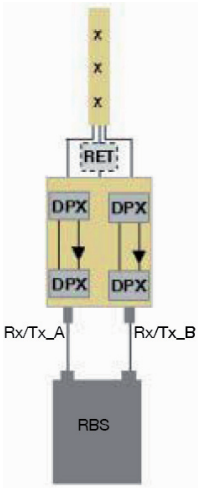
Excellent reliability

The ASC´s high level of redundancy and the lack of add-on units for powering and control ensures a high reliability, both on unit and system level. Naturally, a high-performing lightning protection is integrated.

Key Features

- Specified and verified as an integrated system solution for Ericsson RBSs
- Full band coverage, 60 MHz
- Built in lightning protection and RET interface
- Excellent RF performance
- Connectors “in line”
- Double unit, i.e. supports one sector



TECHNICAL SPECIFICATIONS FOR DOUBLE TMA 2100, ASC

PRODUCT NAME	**PRODUCT NUMBER**
Double TMA 2100, ASC	KRY 112 42/4
RADIO PERFORMANCE	
Bandwidth:	60 MHz
Receiving pass band:	1920 – 1980 MHz
Transmitting pass band:	2110 – 2170 MHz
Gain:	27-33 dB
Max electrical delay:	<60 ns
Uplink noise figure:	<1.2 dB (Typical)
Input intercept point IIP3:	>3 dBm
Input impedance:	50 ohm
Return loss:	>16 dB
TX Insertion loss:	<0.5 dB*
ELECTRICAL SPECIFICATIONS:	
Nominal voltage:	24-32 VDC
Power consumption:	<12 W
ENVIRONMENTAL SPECIFICATIONS	
Temperature range, full performance:	-40 °C to +55 °C)
Mean Time Between Failure (MTBF):	>30 years
Sealing:	IP 65
Lightning protection:	EC 1024
Safety approval:	CE - marking
Safety standard:	EN 60950 abd EN/IEC 60215
MECHANCIAL SPECIFICATIONS	
Dimension (H x W x D):	333 x 201 x 97 mm
Weight:	4.6 kg
RF connector:	7-16 DIN female
DC/Alarm:	Superimposed on the RF signal
Mounting:	Pole or wall mounting

*Typical values

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