



ANTENNEN | ANTENNAS



The ANTONICS principles

INNOVATION

- Extremely flat Antenna-Design in the range of **140 MHz to 6000 MHz with the height of only 40mm or 60mm**
- **Multiband technology** with selective connectors to each frequency band
- Development and Production of **PLANAR ANTENNAS**
- Technological leadership in the field of Railway antenna / Train antenna
- Specially suitable for **vehicles with a plastic roof**
- Antenna with high gain and efficiency by metallic pathogen structures **without loss-making components such as ceramic / PCB**
- Antenna with high gain and efficiency by selective coupling instead of loss-making broadband connection

PRECISION

- High Quality Antennas **Made in Germany**
- Manufacturing of all the mechanical precision parts in house
- Extremely long lifetime / MTBF via patented planar **WACU antenna technology** without loss-making ceramic or PCB
- Customized design
- **3D Microwave Field Simulation, 3D Construction, RF Measurement** in terms of vehicle body
- Extreme temperature resistance of all parameters from **-60°C to +80°C**
- **Railway approval EN 50155, EN 50124, EN 50122-1, IEC 60068-2, IEC 61373, ISO 922, ISO 20653**
- Wide range of **worldwide references in aftersales and OEM**



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ECONOMY

- **Cost reduction due to reducing the antenna quantity on the roof** with OmPlecs-Multiband – Technology
- Up to **6 connectors** to each frequency range in **one antenna**
- **No high-cost splitter or combiner** as in a broadband train antenna with only one RF connector required
- No problems with the clearance height
- **GPS/GLONASS amplifier included in the delivery of antenna**
- Free technical support and consulting for our customers
- RF simulation of the radiation characteristics in terms of vehicle bodies

TRAIN APPROVAL

- High Voltage Test 25 kV AC DIN EN 50124 / DIN EN 50122-1
- High Voltage Test 3 kV DC DIN EN 50124 / DIN EN 50122-2
- Temperature Test IEC 60068-2
- Cold up to -60°C DIN EN 50155
- Dry heat up to +80°C DIN EN 50155
- Damp heat, cyclic DIN EN 50155
- Mechanical Test DIN EN 50155
- Vibration broad band IEC 61373
- Shock, half sine IEC 61373
- Salt mist spray ISO 9227
- Protection ag. water ISO 20653
- High press. steam jets ISO 20653
- Fire Behavior EN 45545-2, DIN 5510-2, NF F 16-102