Your global antenna team
The global antenna team is a worldwide strategic alliance between IMS Connector Systems, an experienced manufacturer of mobile phone components and IMST, a well known RF design house. This co-operation offers innovative, well-suited and cost-efficient antenna solutions for mobile phones, datacom products and terminals.
The smart way to YOUR antenna

State of the art antennas

Your global antenna team is structured to offer all the level of services around modern antenna development and manufacturing. Our expertise and facilities range from basic developments through high quality and economic volume production.

The global antenna team will help you achieve state of the art antennas, in the shortest possible time, at most competitive cost.

Most standards

Our know-how, developments and products cover all major standards of wireless communication.
Applications

No matter which application you are looking for, we support you with all of them. Whether handsets, datacom products or terminals, we will always choose the most suitable concept.

Time to market

Your global antenna team provides you an excellent start position. Many basic developments and off the shelf interface solutions are ready to build on. This will save you time, R&D cost and resources, and will improve your time to market bench mark.

Manufacturing technologies

It is our aim and philosophy to choose the best manufacturing technology for each antenna. We have all the facilities for metal and plastic processing including MID technology. Our manufacturing plants are spread over 3 continents, meeting and exceeding modern standards of production.
The steps of support

Starting with a target

There are a number of requirements your antenna will need to meet: volume, shape, RF-performance, interfacing and many more. But enough for us to start.

Customised sample

Within a short period of time you will receive a fully operating antenna sample which demonstrates the RF-performance. In addition, we will present you a producibility review and budgetary cost.

2 Weeks

The sample will be delivered with measuring results on impedance, bandwidth and radiation characteristics.
Once the sample meets your expectations, the project can start. The different specialists and divisions will interact in a dedicated project group and many activities can take place in parallel. This will dramatically reduce the overall time through the production start.
Infrastructure and know-how

Powerful

Experienced RF engineers and powerful simulation tools guarantee fast and accurate antenna design.

Software tools

We rely not only on a variety of commercial tools, but also on our own 3D field solver. It enables us to predict the antenna performance in a real environment at a very early stage of the design process.
Fast prototyping

Fast prototyping is a key requirement for customised design. Our experienced prototyping specialists have a wide variety of production techniques at their disposal. This guarantees a smooth path from prototyping to production.

Side by side

Prototyping, development and manufacturing specialists sit alongside. Therefore you can expect an accurate and fast approach towards volume production.
Your global antenna team can offer you a wide range of equipment and know-how for antenna testing. In our three anechoic chambers and five measurement labs we can measure all relevant electrical, mechanical and environmental parameters.

RF Measurements

No antenna prototype will leave us until we know every aspect of its quality and performance. As we have an extensive RF background we do not only consider the antenna, but also the system environment while testing.
Terminal antennas

Mobile device antennas require special measurement methods. Our facilities for these types of measurements are flexible, software-controlled systems. We offer in-house standard certification measurements such as radiation patterns and SAR (Specific Absorption Rate). In addition, we use advanced measurement methods for nearfield analysis and radiation efficiency.
Your global antenna team offers you modern manufacturing plants on 3 continents. Our production facilities range from basic technologies like injection moulding and metal sheet processing up to fully automated assembly lines.

We will always consider the different technology options and recommend to you the best choice in terms of quality, reliability and cost efficiency.
Manufacturing
facilities

Automation
We will not only recommend to you the best technology, but also install a production line tailored to your specific product. This will ensure you most competitive prices and a strong market position.

Quality
We comply with all state of the art quality requirements. Our quality systems and programmes can be easily adapted to your individual requirements.
Adding abilities, multiplying performance

1 + 1 = 3

Competitive team

Better, faster, cheaper, available always and everywhere: the features of successful business. The global antenna team’s aim is to offer you all this. Therefore, expertise and resources from two companies, one specialised in antenna R&D, the other an experienced manufacturer, were put in one team, fully dedicated to antenna development and production.

Partnership to rely on

The global antenna team is a long term strategic partnership between IMS Connector Systems and IMST. You can fully rely on the continuity of the team which guarantees you support with all of your antenna projects.

Hand in hand

From basic research through to mass production: it’s all one team. The team members work hand in hand, many processes can happen in parallel. Communication paths are short and there are no inefficient interfaces.
Cutting cost

The continuous interaction between R&D and production opens up huge saving potentials. Small design adaptations and the right technology choice save money and time while improving the quality.

Globally available

The global antenna team offers you truly global support. With sales and service organisations worldwide and manufacturing facilities in three continents, we can tailor our services exactly to your organisations needs.

Relaxing cooperation

Outsourcing your antennas to the global antenna team can be very relaxing. You can work from the very beginning with reliable cost and time figures, you do not need to worry about performance or capacities and you can concentrate your valuable resources on other projects. Enough reason to ... JUST TRY IT.
IMST GmbH

- 1992 – Start of operations
- 1995 – New headquarters
- 1996 – EMC test center
- 1998 – ISO9001 quality management

Divisions

- Systems
- RF circuits
- Integrated circuits
- Antennas & EMC

Staff & Assets

- 130 employees, 110 technical staff
- Hybrid technology, LTCC capabilities
- 2 anechoic chambers
- Linear/nonlinear measurements up to 110 GHz
- Channel sounder measurements

Software products

EMPIRE – 3D field solver
COPLAN – coplanar circuit simulator
TOPAS – FET model + parameter extractor

Key activities

- Components and systems for wireless applications
- RF circuit design – GSM, EDGE, UMTS
- Wireless connectivity – Bluetooth, ISM
- Hybrid circuit design – LTCC, thinfilm, thickfilm
- Custom tailored ASIC & MMIC design

IMST is a design house for the IT-industry and understands itself as a leading workbench. The scope of activities includes all phases from consulting to product type approval. IMST is heavily involved in leading edge European research projects as well as in international standardisation committees. The IMST accredited test center provides tests in electromagnetic compatibility (CE sign) as well as for mobile phones.

Head Office Kamp-Lintfort, Germany
IMS Connector Systems

Background

1989
- Foundation of IMS Connector Systems

1990’s
- High investments in R&D
- High investments in production plants
- Set-up of global support network

1995
- New headquarters in Germany

1996
- Own operation with production facilities established in the USA

1999
- Own operation with production facilities established in Hungary

2000
- Own operation with production facilities established in China
- IMS Connector Systems employs worldwide 800 people in 8 operation units

2001
- Operation start of the global antenna team

Markets and industries

- Mobile phones
- Datacom products
- Base stations
- Antennas

- Measuring equipment
- Automotive and telematics
- Local and wide area networks

Product range

- Antennas
- RF switches
- RF connectors
- RF cable assemblies
- Lightning protector
- I/O System connectors
- Mechanical components
- Fibre optic products

IMS Connector Systems CV

Dallas, Texas, USA
Sopron, Hungary
Suzhou, China

Production plants worldwide

Head Office Löffingen, Germany
Your global antenna team

Your partners for...

Technology consulting

Project management

Research & development
Measuring & testing

Manufacturing

State of the art antennas