



Design Freedom Delivered

SkyCross is a global designer and manufacturer of one-stop antenna solutions for a variety of wireless devices in the mobile phone, personal entertainment, and computing industries.

Through award-winning superior technology, RF systems expertise, and regional support, SkyCross empowers device designers to create winning consumer electronics.

Any wireless device

Any combination of features

Any set of frequency bands

Any network

Any price point

Any regional or global market



Award-Winning Technology

Devices are shrinking and functionality is increasing. SkyCross meets this multifaceted engineering challenge with versatile antenna solutions that provide wireless connectivity for nearly any device.

Key Features/Benefits:

Multi-band/mode Operations

As consumers demand more features from mobile devices, the antenna must cover more frequency bands to support the services. Broadband, multi-band, or tunable antennas from SkyCross can cover wide bandwidths using a single structure to simplify device design for manufacturers. SkyCross antennas support any set of frequency bands for any network.

Low Power Consumption

Research shows that improvements in power added efficiency (PAE) translate nearly one for one into longer battery life. SkyCross improves PAE by offering better matching and a higher level of integration among elements. This enables end users to enjoy a better signal, faster data rates, and fewer dropped wireless connections. Network operators can offer optimized performance without additional infrastructure investment.

Small Size for Sleek Devices

SkyCross is a leader in maximizing antenna performance in a given space. Our technology enables the antenna to fill available volume rather than being tied to a particular shape or size. This provides device manufacturers the freedom to design sleek devices.

High Isolation for Multi-Antenna Applications

Many next-generation protocols such as HSPA, WiMAX, and LTE require multiple antennas for diversity or MIMO to achieve higher link gain. The challenge with integrating multiple antennas is finding enough room in the device and positioning the antennas so they are highly isolated, meaning radiation from one antenna isn't wasted by traveling into the neighboring one.



Award-winning iMAT, Isolated Mode Antenna Technology, enables a single antenna structure to behave like multiple high performance antennas through the use of multiple feed points, each with high isolation, low correlation, and high per-feed efficiency.

In addition to the performance benefits, iMAT offers simple integration and cost-effective manufacturing. iMAT is a ready-made diversity or MIMO antenna system with performance optimization built in to a very small footprint. iMAT reduces the number of antennas and related components needed on the bill of materials while being cost-effective in its own right.



PORTABLE DESIGN™

2008 EDITOR'S CHOICE AWARD
INNOVATION OF THE YEAR

WINNER
Fierce 15
FIERCEWIRELESS



MOST PROMISING TECHNOLOGY

RF Systems Expertise

A small, highly efficient antenna is an integral part of the device and must be designed, implemented, and evaluated with the overall device performance in mind. The seasoned scientists and engineers at SkyCross solve complex RF issues every day to ensure that all RF components – not just the antenna – function efficiently.

Our experience enables us to tell in advance if a proposed device implementation may have issues such as poor antenna positioning, problematic ground clearance, and proximity to noise structures.

The RF systems approach at SkyCross reduces time to market and lowers cost by simplifying or eliminating adjacent RF components; resolving complex, interrelated signal processing issues; and avoiding problems encountered late in the development cycle such as re-tooling and multiple board spins.

Regional Support

SkyCross has made substantial investments in state-of-the-art infrastructure in China, Korea, and the United States. Each full-service regional center provides local support through each stage of the product life cycle, enabling device manufacturers to deliver products to market faster and gain competitive advantage.

The seamless design and manufacturing network enables projects to easily transfer between SkyCross offices depending on product stage. Maybe your design team is in the US and production will be managed by a contract manufacturer in Asia – no problem! SkyCross teams are strategically located to meet these needs.

Design

The antenna design philosophy at SkyCross is to tailor antennas to customers' industrial designs and applications—not forcing the customer into using a particular antenna design. After carefully reviewing your electrical/mechanical specifications, target timelines, and budget requirements, SkyCross will work with you to develop an appropriate action plan. This may range from a fully customized design to a relatively standard product, or anywhere in between. Each SkyCross office is outfitted with on-site test equipment, 3D measurement chambers with far-field scanner capabilities, and advanced analysis software to thoroughly review antenna performance both in free space and upon integration.

Manufacturing

With millions sold around the world, our antennas meet the strict quality requirements of high-end consumer electronics as well as the price points for low-end, high volume devices.

Our global manufacturing network uses in-house facilities and outside suppliers to provide high quality, cost-effective, RoHS compliant parts quickly. Together, production capabilities include stamped metal, injection molding, PCBs, flex film, cables, and surface mount parts. Most SkyCross locations have on-site assembly capability to reduce time to market.

SkyCross is committed to providing high-quality goods finished goods. Our facilities are ISO9001 certified and have passed rigorous inspections by some of the top device manufacturers in the world. Our reputation for quality parts made from common, cost-effective materials has made us a leader in the industry.



Proven Solutions

SkyCross technology is commercially proven every day in wireless networks around the globe. Our unique one-stop solution combining award-winning antenna technology, RF systems expertise, and regional support has attracted hundreds of customer projects with millions of antennas sold. In addition, SkyCross consistently provides antennas for pioneering and bestselling devices.

SkyCross is the right choice for your next wireless device

The applications are broad, the opportunities – boundless. SkyCross antennas are the dependable versatile tool that can complete your success in the wireless revolution. Contact us for more information on the advantages of including Skycross in your next design project.



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