

Interconnect for Mobile Phones applications

Retractable, Stubby Antennas

The global custom design center provides a full range of antenna designs for mobile applications in ESMR, AMPS, CDMA, GSM, GPS, Satellite, DCS, PCS, UMTS, Bluetooth, and Wireless LAN. Amphenol designs and manufactures to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{5}{8}$ mono, dual, triple, quad and penta bands in wire, PCB, plated-plastic and flex technologies. Available in screw or snap-in, and integrated with RF switches in SAR optimized.



Internal Antennas

Our global antenna design centers located in Americas, Asia, and Europe, with five advance RF Chambers (Arc Anechoic-Chamber) can support customers around the world. Utilizes PIFA, IFA Slot, Cavity, Flex, Ceramic, and Plated on plastic technologies for mono band to multi band, with low profiles. Integration with RF switches, back housings and RF ID designs to optimize SAR performance.

RF Switches

A full range of RF switches, with straight and right angle mountings, and miniature, low profile, and light weight for different phone design requirements. Full mechanical switches provide high reliability for wireless terminal testing and connection to external car antennas of up to 5GHz.



Internal

Amphenol provides a full range of internal connectors for mobile phone and consumer devices, for use in interconnecting board-to-board, LCDs, speakers, vibra motors, antennas, and multimedia devices such as cameras. An advanced design with a fine, 0.4/0.5mm pitch achieves miniaturization, low profile and light weight.

SimLock and Wingblock

The close system design of Simlock and Wingblock provide the highest reliability for Sim card readers in mobile phone applications, easy handling, and no tolerance problems. Optional card detectors/switches and mounting studs extend the phone's design features. Fulfills GSM standards, and is ideal for WAP and GPRS applications, with its fully covered, enclosed systems.

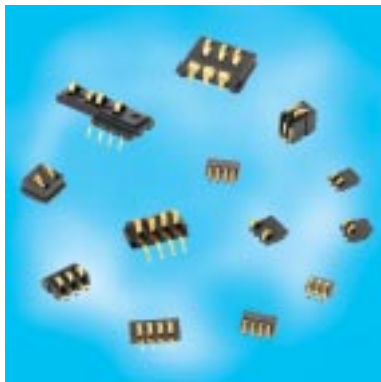


SimBlock and U-Block

This miniature reader, SimBlock and U-Block is designed to minimize PCB space. A range of heights (0.8mm to 4.5mm) to fit various phone designs. Special spoon contact design for 360-degree card insertion. Optional float mounting technology for top-down assembly (no soldering).

Battery

Comprehensive offering of battery connectors for mobile phones, from single to multi contact, in straight and right angle mountings. A variety of pitches and heights to meet different phone and battery pad requirements. Stamp and form beryllium contacts with additional solder tags for highest reliability and conductivity. Optional float mounting technology for top-down assembly (no soldering).



Pogo

Spring plunge (Pogo) connector provides a space effective design to PCBs. Amphenol provides a wide range of products, from single to multi pins, in different heights, pitches, and spring forces to meet with various mobile phone design requirements. In addition to battery interconnects, it is also widely being used for antenna interconnects.

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PDA and Smart Phone Antennas

Amphenol is one of the leading providers of integrated antenna solutions for mobile computing products as wireless PDAs, Smart phones, Laptops and Access points. Featuring custom designed internal and external antennas in dual, triple and quad bands, with PCB, flex and metal sheet technology optimizing RF performance; integration with GPS (L1, L2), operability (E911), and flip antennas with micro-hinges.



Wireless LAN Antennas

Full range of antenna solutions for wireless LAN applications (IEEE 802.11a, 802.11b, HyperLAN, Home RF, WiFi and Bluetooth). Available in internal or external, integrated with micro-coax cables and connectors. The new combo design (dual band wireless LAN, 2.4 and 5.8 Ghz) solutions are ideal for Laptops, PCMCIA cards, and Access points. Amphenol's extended RF expertise in integrating high frequency antennas with other RF devices optimizes their operational range.

I/O System, Compression

Amphenol's wide range of compression style I/O system connectors is widely used in mobile phone applications and integrated with data, audio, DC jack, battery, and microphone contacts (4 in one connector), simplifying phone design. Additional metal clips for secure mating. Optional float mounting contacts for easy assembly (No soldering).



I/O System Shielded

The full range of standard I/O connectors is designed to the latest mobile phone application technologies. Comprehensive offerings, from 2 to 26 pin, shielded sockets, with fine pitch (0.5mm) integrated with battery contacts and DC charging. High reliability, and insert molded housings provide a miniature, low profile and lightweight configuration. A metal shielding socket and spring clip on the plug ensure secure mating.

Hinges

A full range of hinges, designed with several diameters, spring force, and cover opening angles, to meet all kinds of phone design requirements. Full mechanical silent design with high reliability.



Data and Audio I/O System

Amphenol provides various miniature data and audio I/O connectors, such as earphone jacks and Mini USB. Both are miniature with an ultra low profile design to save space on the PCB. Audio jacks are available in mono or stereo with a switch function. Extra solder pads and location pins increase retention force for secure board mounting. The SMT Mini USB provides space savings on mobile phone PCBs for high-speed data transfer with computers or other devices.

Accessories

Amphenol provides a wide range of mobile phone accessories, RF test cables, signal test cables, charger cables, data transfer cables, and battery pad contacts. This complete range offers design solutions tailored to latest phone requirements.



MMC/SD Card Reader

MMC/SD chip card readers are designed to meet both Multimedia card and SD card specifications. Polarization design prevents inverse insertion, and pre-mating contacts allow hot plug with a write protection switch. Optional card present detector also available.