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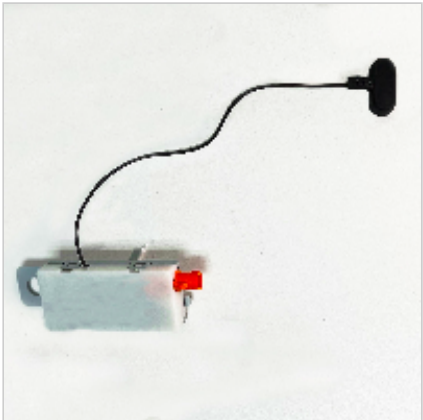
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Amphenol

Antenna Solutions

Amphenol designs and manufactures high-performance antennas specializing in Base Transceiver Station (BTS) and Small Cell Antennas for macro, iDAS and oDAS systems. We also offer transmission line products and other radio frequency (RF) peripherals including Base Station Antennas and RET Systems, Small Cell Antennas, Transmission Line Products and RF Conditioning Products. At a smaller scale, we design and manufacture internal, external, retractable, blade and many other types of antennas for wireless devices and antennas for automotive connectivity. Our single and multi-band solutions cover all wireless bands including USGSM, GSM, PCS, DCS, UMTS, GPS, CDMA, DVB-H, Bluetooth, WLAN, WiMAX, and 802.11a, and 802.11b/g.



Antenna LNA

Amphenol's independent amplifier box can be applied to AM, FM, and DAB frequency bands. The amplifier usually matches a corresponding antenna. It comes with a customized harness length and a standard Fakra connector.



Antennas for Private LTE Networks

Are you a property owner looking to deploy private LTE networks? Amphenol canister and panel antennas are easily deployed on rooftops, streetlamps, and pole tops. These low visual impact solutions are ideal when facing strict zoning requirements.



Automotive Antennas

Amphenol’s automotive antennas and RF cable assemblies are integrated into car doors, window glass, and infotainment systems; and assembled onto vehicle roofs. From shark fin antennas to coaxial assemblies, Amphenol can provide solutions for GPS, SDARS, WIFI, Bluetooth, 3G, 4G LTE, and AM/FM.



Automotive Mast Antenna

Amphenol's fiber glass mast antenna is widely used in pickup trucks. The antenna covers AM, FM and DAB frequency bands. It has 2 versions of length: 595mm and 685 mm. A customized thread can be applied for installation.



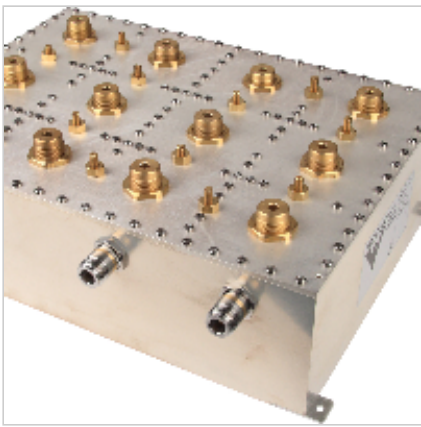
Colinear Omni Antenna for LTE & DMR - 42XX

The PRO-TRI 174/380-520/760-960 is a Triplex Filter (Multiplexer) used for combining /splitting 3 LMR/PMR radios, a VHF, a UHF, and an LTE to/from just one antenna. It comes in 2 versions both with SMA connectors, one for low/medium power up to 30 W per radio and one for high power radios up to 150 W per channel.



Distribution Network Antennas

Amphenol’s series of miniature data cards and USB dongle antennas for 3G, 3.5G, and 4G LTE applications provide the performance to power high-speed mobile internet connectivity. With volumes less than 1.5cc and a customizable geometry, these multiband antennas are easily integrated into miniature data cards.



DPBP 70/3333-TETRA-N - Duplex Bandpass Filter

The DPBP 70/3333-TETRA-N is a Duplex Bandpass Filter for the European Public Safety/mission-critical network called Tetra, but it can also highly be used for the P25 networks or LMR/PMR UHF450 (380-470 MHz) radio networks. It is specked to 200 W CW and benefits among others for having a very high TX/RX Isolation and a very low Insertion Loss due to a unique silver plating in the filter house.



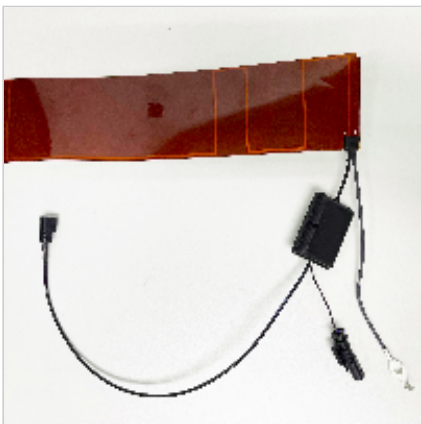
Entertainment Antennas

Amphenol’s high-performance WIFI antenna solutions for entertainment systems such as PlayStation, TV, and wireless sound systems enable excellent connectivity and high speeds. Multi-antennas for the MIMO system allows better reception and data rates.



FPC Antenna

Amphenol designs and manufactures custom FPC antennas. The FPC antenna can come with adhesive backing, on a plastic carrier, or with wire termination. FPC antennas are commonly used in smartphones, smartwatches, tablets, laptops, set-top boxes, and other devices requiring 4G, 3G, diversity, NFC, Bluetooth, and GPS frequency bands.



FPC FM Antenna

Amphenol's independent FM antenna is constructed with FPC. It has double sided adhesive tape on the back for flexible installation. Customized harness length is overmolded onto the FPC with a standard Fakra connector.



GNSS Antenna Module

Amphenol's independent GNSS box includes an L1 band (1575MHz) patch antenna and a corresponding LNA. A customized harness length can be applied with a standard Fakra connector. It is applied in a vehicle for navigation.



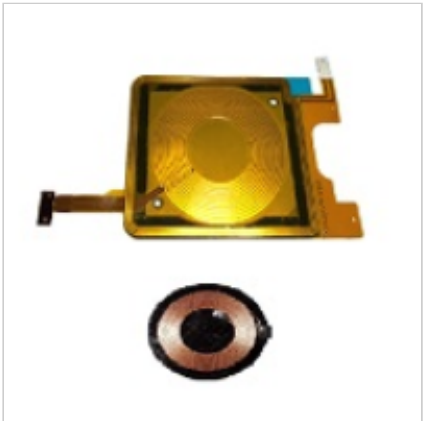
HF Antennas

Amphenol manufactures HF Wire Antennas for short, medium, and long-range communications. The antennas are designed for tactical, emergency, and fast reaction situations. Wires are Kevlar-cored, copper braided and PVC coated with a no-kink feature. They are numbered for accurate set-up and are designed for the military environment with the soldier in mind.



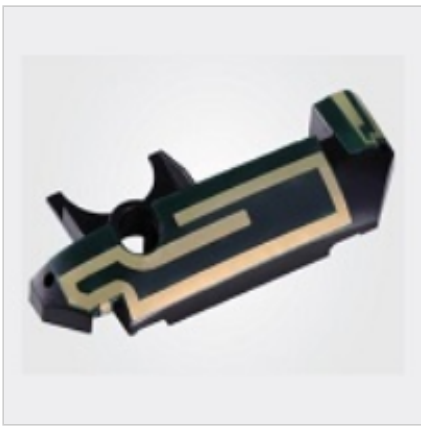
High Performance Small Cell Canister Antennas

Amphenol offers one of the largest portfolios of small cell canister antennas in the industry. Our high port counts are ideally suited for multi-carrier, 4x4 & 8x8 MIMO. High gain reduces handover & increases channel capacity through spectral efficiency. Antennas cover the full sub-6 5G spectrum. An innovative design makes them easy to deploy & they blend seamlessly for strict zoning requirements.



Inductive Charging (Qi)

Amphenol's inductive charging coils can be integrated into laptops, tablets, wearables, and other mobile computing devices. It complies with typical standards such as Qi, and can be customized to comply with other standards. The coil is made with FPC or wire wrapping . Generally, it is mounted on the battery.



LDS Antennas

Laser Direct Structuring (LDS) has led to vast opportunities in innovative design. The laser activation technology produces thinner lines and smaller features than previously made possible by other molded interconnect device processes without compromising consistency and repeatability. Surface mounting components on LDS antennas is also possible.



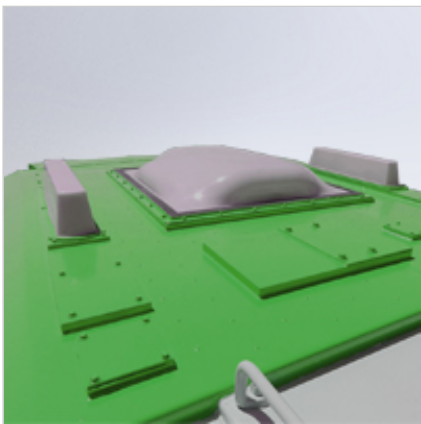
Mid Frame Antennas

Amphenol designs and manufactures plastic mid-frames for smart devices utilizing custom insert molding for metal battery compartments, acoustic chambers, and other mechanical components. Two-shot LDS can be utilized for increasing the mechanical strength of the frame yet creating a unique LDS antenna geometry.



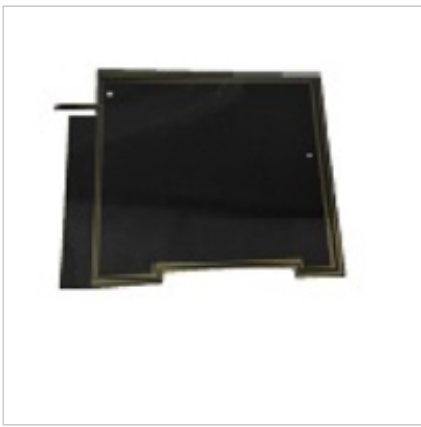
Mobile Device Antennas

Amphenol offers market-leading expertise in the design and production of antennas for wireless devices. Our single and multi-band solutions cover all wireless bands: USGSM, GSM, PCS, DCS, UMTS, GPS, CDMA, DVB-H, Bluetooth, WLAN, WiMAX, and 802.11a, and 802.11b/g.



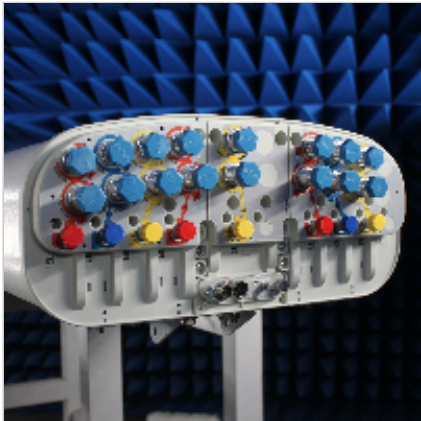
Multi-Band Transportation Antennas

Amphenol’s transportation antennas are ideal for all locomotive/railway applications. The antennas feature multi-band arrays for PTC, voice, data, and location-based services. A quick-fit, blind-mate mounting system, and cabling solution offer rapid deployment. Independently verified, the antennas are designed to withstand the typical locomotive operational environment.



NFC

Amphenol's Near field communications (NFC) coils are integrated into laptops, tablets, wearables, and other mobile computing devices. The coils are thin and can be mounted on metallic surfaces such as PCBA, metal sheet, battery , etc. It complies with the Forum and EMVco standards.



NodeLine Base Station Antenna Family

New innovative Base Station Antenna family, with shaped radome for best in class wind load, native support of Supplementary Downlink at 1400 MHz, wide dynamic tilt range in all cellular bands, ready to ease 5G rollout with any advanced Beamforming or Massive MIMO options



Over-Molded Whip and Stubby Antennas

Amphenol manufactures various whip and stubby antennas utilizing in-house single/dual shot injection molding and insert molding processes for single and multiband frequencies. Various connector interfaces can be selected for custom applications.



PRO-AR - Receiver Multicoupler

The PRO-AR is an active wideband receiver multicoupler for the VHF and UHF bands (30-960 MHz) with 1 antenna input and 4, 8, 12 or 16 RX output ports. Sufficient preselector filters are often built in to prevent possible interference from strong transmitters outside the frequency band of interest. The PRO-AR comes in versions fitted for 115 V AC for the US market and for 230 V AC for EU market.



PRO-COM450-HDAR-4 - Compact Combiner

The PRO-COM450-HDAR-4 is an integrated single tray (19") 4 channel radio 450 MHz combining solution, housing a hybrid Tx hybrid combiner, duplex filter, active Rx multicouplers and preselector. Tx power per channel is 50 W. It also comes in a 100 W per channel version. It is highly used in UHF 340-470 MHz LMR/PMR/DMR radio base stations for combining/splitting channels to just one TX/RX antenna.



ProFinPlus - Shark Fin Mobile Antenna

A shark fin mobile antenna, ideal for critical communication vehicles, trucks, and busses. This is a 2x2 MiMo LTE and WIFI with GNSS, GPS, 2G/3G/4G/5G, and dual WIFI 2.4/5.8 GHz. Optional extras include an external whip for VHF/UHF or another LTE band and cable harnesses. Offering best in class ingress protection, IP67.



ProNexus - Low Profile 4G/5G Mobile Antenna

Following on from the ProFinPlus the ProNexus offers 4x4 MIMO for 4G and 5G, up to 6x6 MIMO for Wi-Fi 6 and GNSS. Ideally suited for Public Safety, Public Transport, and Autonomous vehicles. Design to be aesthetically pleasing whilst withstanding the harshest of environments rated to IP69K and IK10 makes.



PRO-TRI 174/380-520/760-960 - Triplexer

The PRO-TRI 174/380-520/760-960 is a Triplex Filter (Multiplexer) used for combining /splitting 3 LMR/PMR radios, a VHF, a UHF, and an LTE to/from just one antenna. It comes in 2 versions both with SMA connectors, one for low/medium power up to 30 W per radio and one for high power radios up to 150 W per channel.



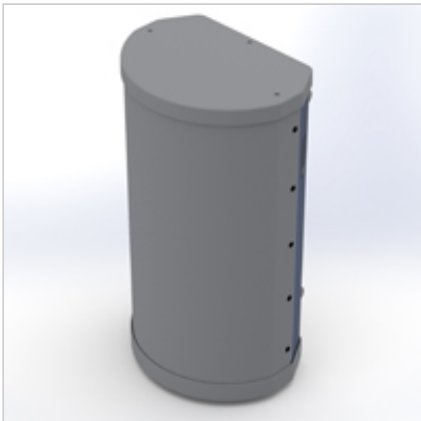
Sharkfin Antenna

Amphenol's standard Sharkfin consists up to 4 4G/5G elements. A dual-band GNSS patch is also included. An SXM patch is optional for the North America market. Amplifiers for both GNSS and SXM are included. Optional WiFi and V2X antennas can also be added accordingly. Customized harness lengths with standard Fakra connectors are applied.



Small Cell Antennas

Amphenol's high performance small cell antennas can be applied to densely-populated area such as stadiums, airports, railway stations, etc. It has high gain, special beamwidth, and multi-bands. Coverage is improved significantly with the small cell antenna.



Small Cell Panel Antennas

Add capacity & increase coverage with Amphenol’s small cell panel antennas. These high-performance antennas can be installed on lamp posts, utility poles or walls - either outdoors or inside venues. Multiple columns of elements provide azimuth side lobe suppression and reduce interference with adjacent antennas or sectors. Select from 22°, 33°, 45°, 65° or 85° HBW for directed, precise coverage.



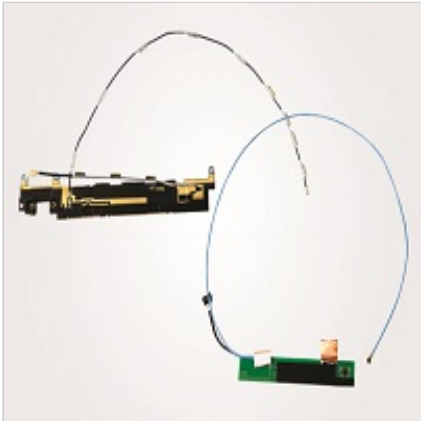
Smart Box Module

Amphenol's antenna smart box consists of two 4G/5G elements. A dual-band L1/L5 GNSS antenna plus the amplifier are also integrated. An optional WiFi Antenna can be added. This box is applied on vehicles with glass sunroofs. Customized harness lengths with standard Fakra connectors are applied.



Stamping Antenna

Amphenol's stamping antenna can be implemented into IOT devices, mobile phones, laptops, tablets, wearable devices, and other mobile products. It has a simple structure, low cost, and high RF performance. Generally, it's mounted close to the PCBA and works with bands: GPS, WiFi, UWB, 2G, 3G, 4G, and 5G bands.



Tablet Antennas

Amphenol’s high-performance tablet antennas are integrated into laptops, tablets, ebook readers, and other mobile computing devices. Generally mounted along the edges of the device, these antennas enable connectivity of up to 10 frequency bands in one unit. They can be configured as multiple antenna modules with several coaxial feeder cables or as a single feed unit with one cable.



TRIO solutions for legacy and 5G

3-sector base station antennas cylindrical structure, able to host the latest generations of panel antennas. Due to their low visual impact, TRIO antennas are ideally suited for rooftop and wherever site acquisition or site upgrade is a challenge



Ultra Low Profile In-Building Antennas

Amphenol’s PIM-rated antennas ensure reliable connectivity for your iDAS network. High gain omni ceiling mount and directional panel antennas are available in 4x4 MIMO, 2x2 MIMO, and SISO configurations for virtually all applications. The aesthetically pleasing, ultra-low-profile antennas are lightweight and easy to install in any building or venue.



UWTA600-6000 - Wideband Terminal Antenna

The UWTA600-6000 is ideal for integrating with intelligent devices. Covering 600 MHz for low band 5G, 700-2700 MHz for 4G. Wi-Fi is covered at 2.4 and 5.8 GHz not forgetting CBRS and mid-band 5G up to 6000MHz. IP67 rated including the connector. Ideal for a multitude of Intelligent Devices connecting to a vast array of wireless networks.



Wearable Device Antenna

Amphenol's Laser Direct Structuring (LDS) is used for wearables, smart phones, tablets and other mobile devices. The antenna can be mounted on a plastic holder with an irregular shape. It can save space and improve the performance of the antenna.

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