



TAOGLAS®



Datasheet

Synergy 9 in 1 Antenna

Part No:
MA1509.AK.001

Description:

- 1*Active GNSS with RG-174LL & SMA(M)
- 5*5G/4G MIMO with RG-174LL & SMA(M)
- 3*Wi-Fi MIMO with RG-174LL & RP-SMA(M)

Features:

- 4 x 5G/4G(600MHz-6GHz) MIMO Antenna
- 1 x 5G/4G(1.7-6GHz) Antenna
- 3 x Wi-Fi 2.4GHz/5GHz MIMO Antenna
- 1 x GPS/GLONASS/BeiDou Antenna Front End GNSS SAW Filter
- IP67 Rated Waterproof Enclosure
- High Efficiency/Peak Gain Outdoor Antenna
- Cable: 300mm RG-174LL with 4700mm TGC-200
- Connectors: SMA(M) / RP-SMA(M)
- RoHS & REACH Compliant

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1. Introduction



The Taoglas Synergy MA1509.AK.001 is a 9-in-1 next-generation permanent mount antenna for vehicle roof applications. It has a fully IP67 rated waterproof robust PC enclosure and base. The 9 antennas inside support 5G/4G, GPS/GLONASS/BeiDou, Wi-Fi (2.4GHz/5GHz). This outstanding patent-pending antenna delivers powerful MIMO antenna technology for 5G/4G, Wi-Fi 2.4/5.8GHz 802.11n and the emerging 802.11ac, and an optimized GPS/GLONASS/BeiDou patch antenna for location. The 5G/4G antennas also include backward compatibility to work at most worldwide 2G and 3G bands.

Typical Applications:

- Next Generation OEM Automotive Connectivity
- Multimedia, Navigation and Telematics Systems
- V2V, V2X and Fleet Management Applications
- Real-time HD Video Streaming
- First Net Responder Routers

The MA1509 is ideal for applications that require highly sophisticated antennas for real-time streaming applications that demand high-speed video uplink and downlink into the cabin of the vehicle. These challenges are resolved by the highly efficient, high gain MIMO antennas, with high isolation, all of which is necessary to achieve the required signal to noise ratio and throughput.

The MA1509 can also be customized for your particular wireless application and frequency band, subject to NRE and MOQ. There are 8x 300mm RG-174 low loss cables, terminating in SMA(M) connectors for 5G/4G MIMO 5X5 and RP SMA(M) for Wi-Fi MIMO 3X3. There is a 300mm RG-174 cable for GNSS terminating in an SMA(M) connector.

All cable lengths and connector types are customizable. The Synergy MA1509 can be supplied with low loss TGC-200 cable extensions for longer cable runs.