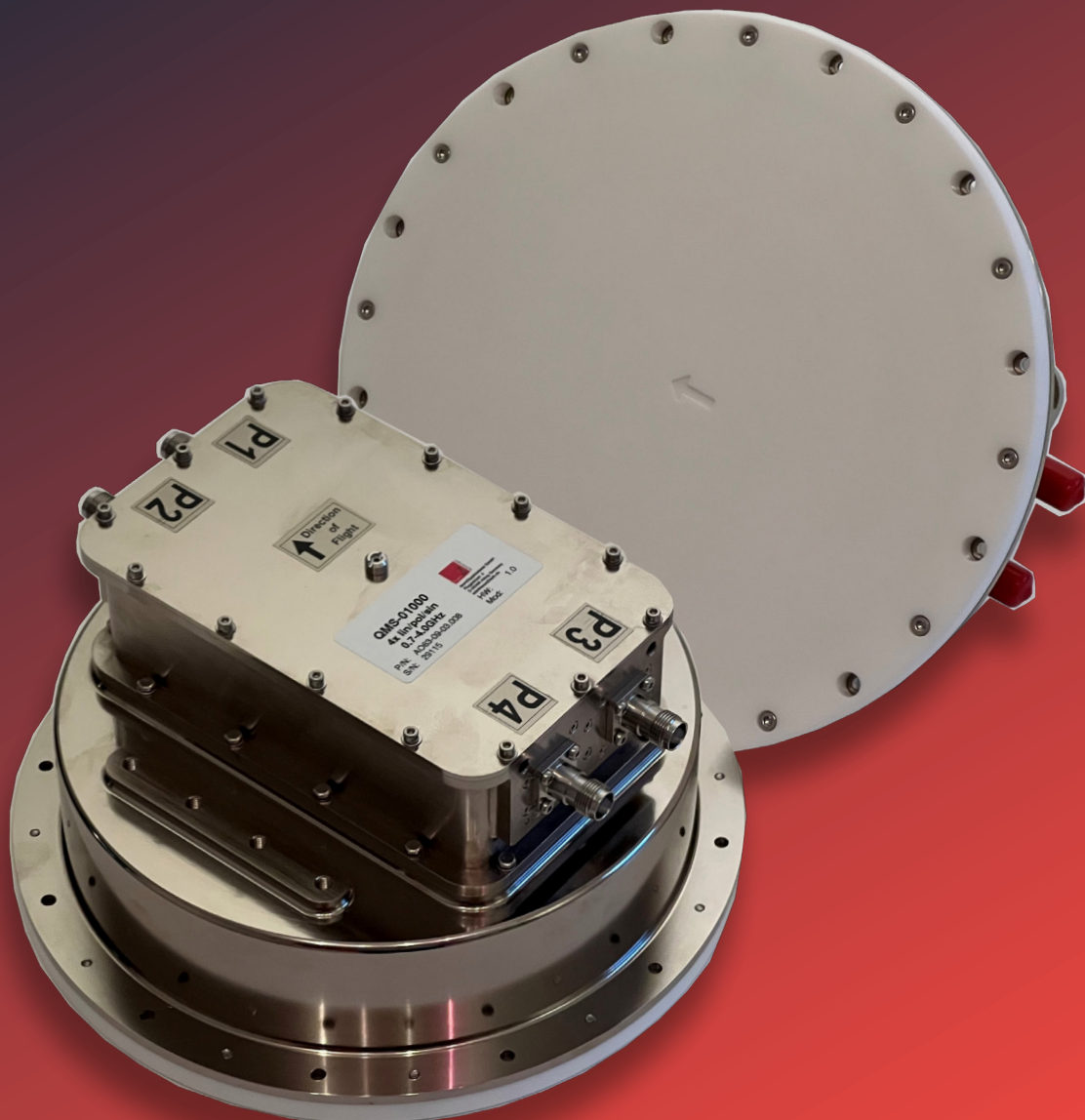


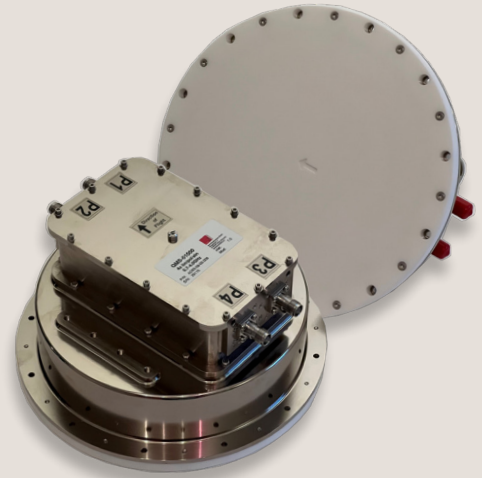
Technical data sheet

QMS-01000 Quad Antenna



QMS-01000 Quad Antenna

**Airborne Antenna/0.7 to 4.0 GHz/quad linear polarized, sinous/
TNC connectors**



The QMS-01000 Quad Antenna is a multipurpose airborne certifiable antenna which covers a wide range of airborne applications due to its wide frequency range.

The QMS-01000 is a Quad antenna design which incorporate 4ea. antenna poles, so one antenna replaces up to 4ea. legacy antennas on aircraft. The wide beamwidth and homogeneous RF distribution outperforms most other legacy antennas, so the result is highest possible connectivity even in very dynamic flight conditions.

It is the industry's first wideband 4-pole antenna in a single small and light-weight box. As the system is fully designed by team2applications for rugged airborne applications we are a valued partner for full integration support and expert-based lifetime assistance.

The QMS-01000 is a future-proof, smart, secure, reliable, and longtime available investment.

The world's first all-in-one wideband quad antenna certifiable for helicopters & aircraft

The QMS-01000 enables all types of airborne applications within a frequency range from 0.7 to 4.0 GHz. Typical applications are connectivity with mobile cell-network and WLAN- (MESH network) requirements, legacy transponder or video-video-downlink applications. In addition, also public security applications with IMSI-catchers are covered. Typical applications are connectivity, mission systems, public safety, emergency medical transport (EMS/HEMS/telemedicine), passenger connectivity and inflight entertainment (IFEC).

Typical Specification

- Frequency range: 0.7 GHz to 4.0 GHz Multi-WAN technology
- Wide frequency design enables a wide range of airborne applications
- Quad Antenna design eliminates 3ea. additional antennas
- Admitted power: 50 W continuous (max)

Certifications

- RTCA DO-160G compliant
- Rotorcraft and Fixed-Wing platforms

Adoptions & Accessories

- Customizations & adaptations available on request
- Antenna combiners
- Frequency filters



QMS-01000 Quad Antenna



Product part number:

A063-09-03.008 AIRBORNE Antenna / 0.7 to 4.0 GHz / quad linear polarized, sinuous / TNC connectors

Radio frequency data:

Frequency	0.7 to 4 GHz
Connectors	2ea. TNC female (P1/P2/P3/P4)
VSWR	Typically <3.0:1
Gain	-1.5 to 2.0 dBi
Antenna Factor	28.6 to 40.3 dB/m
Beamwidth	3 dB: 55 to 94 degrees / 10 dB: 123 to 171 degrees
Power	50 W max. continuous per antenna port

Physical data:

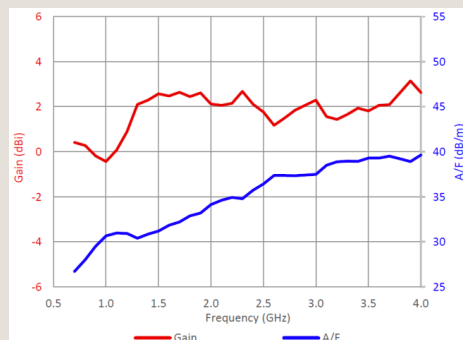
Dimensions / Weight	Diameter: 230 mm (198mm inner); 139 mm height; 125mm insertion depth* / 2.7 kg*
Mounting	Up to 12ea. M4 screws from outside, OR up to 8ea. M5 screws from inside*

Environmental qualification:

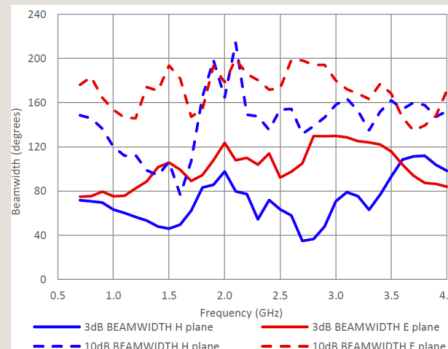
Category code acc. RTCA DO-160G: [B2]ACEUXSXSXTXXXXXXX[2B2B]XXX (also in accordance to AH SPX902A0002E03 (G2)

Radio frequency diagrams:

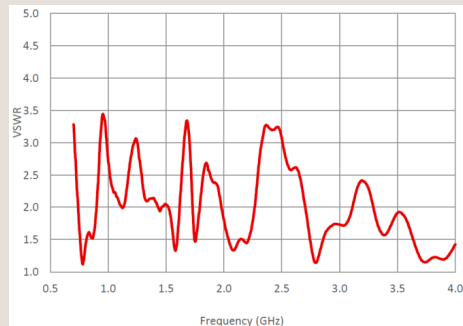
Typical gain / Antenna Factor (Average of four ports):



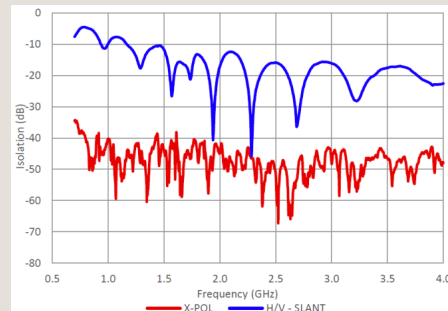
Typical beamwidth (Average of four ports):



Typical VSWR (Average of four ports):



Typical Isolation:



team2technologies

team2applications is a supplier of electronics & system solutions for aerospace and transport applications. The product range covers solutions in the field of connectivity & in-flight entertainment, data communication, data interfaces, onboard computing and IoT edge computing, airborne antenna designs, control-head, as well as heat control systems in various applications. team2 acquired major IPR from a predecessor company with operations in aerospace and transport markets since 1992.

team2 is cooperation partner of EASA Subpart 21J design organizations with EASA Subpart 21G manufacturing and EASA/FAA Subpart 145 maintenance capabilities for the complete product range.

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