

European Aviation Safety Agency

European Technical Standard Order (ETSO)

Subject: Aeronautical Mobile Airport Communication System (AeroMACS)

1 — Applicability

This ETSO gives the requirements which Aeronautical Mobile Airport Communication System (AeroMACS) that are designed and manufactured on or after the date of this ETSO must meet in order to be identified with the applicable ETSO marking.

2 — Procedures

2.1 — General

Applicable procedures are detailed in CS-ETSO, Subpart A.

2.2 — Specific

None.

3 — Technical conditions

3.1 — Basic

3.1.1 — Minimum performance standard

Standards set forth in the EUROCAE ED-223, minimum operational performance standard (MOPS) for aeronautical mobile airport communication system (AeroMACS), dated October 2013.

Note: AeroMACS provides data link communication services over spectrum reserved for aeronautical mobile route services (AMRS). This includes aeronautical operational control (AOC) and non-safety of flight airline administrative communication (AAC) via data link while on the airport surface only. air traffic services (ATS) are excluded from this ETSO. AeroMACS is considered supplemental equipment to communication equipment required by the operating rules. AeroMACS is based on the Institute of Electrical and Electronics Engineers 802.16-2009 standard: Air interface for broadband wireless access systems and can only operate on the airport surface.

3.1.2 — Environmental standard

See CS-ETSO, Subpart A, paragraph 2.1.

3.1.3 — Software

See CS-ETSO, Subpart A, paragraph 2.2.

3.1.4 — Airborne electronic hardware

See CS-ETSO, Subpart A, paragraph 2.3.

3.2 — Specific
None.

3.2.1 Failure condition classification
See CS-ETSO, Subpart A, paragraph 2.4.
Failure of the function defined in paragraph 3.1.1 of this ETSO resulting in misleading data link communication is a minor failure condition. Loss of this function is a minor failure condition.

4 — Marking

4.1 — General
Marking as detailed in CS-ETSO, Subpart A, paragraph 1.2.

4.2 — Specific
None.

5 — Availability of referenced document

See CS-ETSO, Subpart A, paragraph 3.