

**ETSO-C207a**

ED Decision 2020/011/R (applicable from 25.7.2020)

**AERONAUTICAL MOBILE AIRPORT COMMUNICATION SYSTEM (AEROMACS)****1 Applicability**

This ETSO provides the requirements which aeronautical mobile airport communication system (AeroMACSs) 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

The 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

The applicable standards are those provided in EUROCAE ED-223, minimum operational performance standard (MOPS) for aeronautical mobile airport communication system (AeroMACS), dated October 2013.

Note: AeroMACS equipment may provide access in the airport environment to one or more of the following services: air traffic services (ATS), aeronautical operational communication (AOC) including aeronautical information services and meteorological (AIS/MET) information, airline administrative communication (AAC), and airport authority communication, as well as aircraft access to system-wide information management (SWIM) services. AeroMACS AMS equipment is intended for use while on the airport surface only. Passenger information and entertainment service and passenger-owned devices are not included in this ETSO. AeroMACS is considered to be supplemental to the communication equipment required by the operational 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.

A failure of the function defined in paragraph 3.1.1 of this ETSO that results in misleading data link communication is a minor failure condition. A loss of this function is a minor failure condition. The minor failure condition classification is based on the network protocol and/or application system layers above the AeroMACS AMS equipment to detect and annunciate errors that would result in misleading or missing ATS messages.

#### **4 Marking**

##### 4.1 General

See CS-ETSO, [Subpart A](#), paragraph 1.2.

##### 4.2 Specific

None.

#### **5 Availability of Referenced Documents**

See CS-ETSO, [Subpart A](#), paragraph 3.

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