



AEEC Surface Air-Ground Datalink Communications System (AeroMACS) AFC Fall 2015 - Montreal

Aeronautical Mobile Airport Communications System



- Aeronautical Mobile Airport Communications System (AeroMACS) is a WiMAX based technology (IEEE 802.16) supporting airport broadband communications
- Operation in 5091-5150 MHz (extended MLS band) protected spectrum
- 5 MHz channel BW - 11 adjacent channels
- In band Interference considerations: Globalstar (uplink), telemetry AMT (reverse link only)
- Intended for use on airport surface (not on Runways) with aircraft speeds ≤ 50 knots
- Supporting both ATC and AOC applications

AEEC AeroMACS Working Group



- **The AEEC formed an AeroMACS Working Group (WG) which is tasked with defining an airborne radio suitable for installation in all types of aircraft**
- **Topics to be covered include:**
 - **Airborne transceiver form, fit, function, interface, definition capable of operating in the MLS extension band 5000 to 5150 MHz.**
 - **Interfaces to airborne peripherals**
 - **Integration with related broadband systems**
 - **Segregation from unrelated functions**
 - **Aircraft installation guidelines**
 - **Antenna and cabling**
 - **Other items (TBD)**

AEEC AeroMACS Working Group



- A draft ARINC Project Paper 766 (AeroMACS Transceiver and Aircraft Installation Standards) has been prepared by Honeywell and Selex
- The goal of the WG is to develop a mature draft of ARINC Project Paper 766 by the end of 2016
- The first meeting of the AeroMACS WG is scheduled for November 12-13, 2015 in Cocoa Beach, Florida in conjunction with the DLK Systems Subcommittee meeting scheduled for November 10-11, 2015



- Questions?