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electronics, Early aircraft  
were equipped with radio  
communication and  
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CNS ATM stands for

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Avionics are the electronic systems used on aircraft, artificial satellites, and spacecraft. Avionic systems include communications, navigation, the display and



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management of multiple systems, and the hundreds of systems that are fitted to aircraft to perform individual functions. These can be as simple as a searchlight for a police helicopter or as complicated

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as the tactical system for an airborne early warning platform. The term avionics is a portmanteau of the words aviation and electronics.

**Avionics - Wikipedia**

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also analyzes the projected  
flightpath of approaching  
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Unfortunately, the spectrum available for aircraft communications at HF is extremely limited. As a result, steps are taken to restrict the bandwidth of transmitted signals, for both voice and data. Double



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sideband (DSB) amplitude modulation requires a bandwidth of at least 7 kHz but this can

**Chapter HF 5 communications**  
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Whenever VOR navigation

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equipment is required by paragraph (a) or (b) of this section, no person may operate an aircraft unless it is equipped with at least one approved DME or suitable RNAV system . (d) Airplane communication equipment

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requirements. Except as permitted in paragraph (e) of this section, no person may operate a turbojet airplane having a passenger seat configuration, excluding any pilot seat, of 10 seats or more, or a

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In aviation, ACARS (/ˈeɪkɑːrz /; an acronym for Aircraft Communications Addressing and Reporting System) is a digital datalink system for

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transmission of short  
messages between aircraft  
and ground stations via  
airband radio or satellite.  
The protocol was designed by  
ARINC and deployed in 1978,  
using the Telex format.

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## **ACARS - Wikipedia**

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