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(6) The system must be extensible to meet future needs. 2.  
Current Architectures Aircraft Communications Addressing

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and Reporting System The current avionic communication architecture is shown in figure 1 (ref. 3). This architecture has evolved since the early 70s and is based on the Aircraft Communications Addressing and Reporting System (ACARS).

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An Extensible Architecture For Avionics Sensor Health K10 ' s avionics strives to duplicate those of K9 wherever possible, including the computing infrastructure, power system, and instrumentation. Although the K10 robots will draw significantly more power than K9 (approx. 500W versus 100W nominal), K9 ' s power architecture is extensible enough to accommodate K10 ' s power requirements with

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systems; it is there to assist the reader on general aerospace facts that could be useful once the avionic section is reached. The 20 acronyms listed above would be explained in the Avionics section, which in principle forms the essence of this book.

AVIONICS MADE SIMPLE - Mouhamed Abdulla, PhD  
Wu H., Qiu K., Huang W., Kang F. (2014) Extensible Software Architecture for Simulating Cockpit Display and Control System. In: Jia L., Liu Z., Qin Y., Zhao M., Diao L. (eds) Proceedings of the 2013 International Conference on Electrical and Information Technologies for Rail Transportation (EITRT2013)-Volume I. Lecture Notes in Electrical Engineering, vol 287.

Extensible Software Architecture for Simulating Cockpit ...

1. Abstract— This paper describes the hardware and software system integration process for an Integrated Modular Avionics(IMA) architecture of aircraft involving ARINC 653 and ARINC 664 avionics protocols. Index Terms— Avionics, Integrated Modular Avionics(IMA), ARINC 653,ARINC 664 1.

Integrated Modular Avionic(IMA) System Integration Process

ARINC 429 is a widely implemented data bus standard within the commercial aircraft avionics industry. It is a point-to-point link between avionics subsystems including digital electronics, air data computers, navigation systems, and engine control systems. Two buses are used for bi-directional interconnections.

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