

Press release

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Avionics Databus
Solutions

'Get on the 1553 bus' with the AIM SmartCable™

AIM GmbH has introduced a new member to the SmartCable™ family with a MIL-STD-1553 interface for analysis, test and simulation applications.

The ASC1553 offers a USB based interface solution operating with a single USB2.0 port (or higher). The low power hardware design offers a half-pocket sized dual redundant interface for MIL-STD-1553. This saves valuable power on battery powered hosting platforms and gives users longer operational time without requiring an external power supply or a battery re-charge. Douglas Ullah, Director of Sales & Marketing at AIM GmbH tells us: 'Portable USB based interfaces for MIL-STD-1553 testing have been on the market for a number of years, but never in the form of a SmartCable™. The key benefits of the SmartCable™ are its lightweight, portable and low power design, all complimented with a full function, dual redundant MIL-STD-1553 interface. Avionics test engineers are able to debug, monitor, record and even playback MIL-STD-1553 bus traffic for troubleshooting and bus analysis purposes. Users can write their own dedicated application software or simply use AIM's powerful and off-the-shelf PBA.pro Test & Analysis Software'.

Data bus protocol-related real-time capabilities over the USB interface are dealt with by having the necessary hardware, firmware and processing resources directly integrated within the almost standard D-Sub connector sized housing. Additional processing capability is offered by the use of a dual processor System-On-Chip (SOC) device inside the ASC1553.

The ASC1553-A provides a dual redundant MIL-STD-1553 interface with concurrent Bus Controller, Multiple RT Simulator (31) with a Mailbox and Chronological Monitor functions. An optional



Auxiliary I/O connector gives access to 8 (avionic level) General Purpose Discrete I/O signals and 1 trigger input and 1 trigger output, plus an IRIG-B time Encoder/Decoder providing a sinusoidal input/output and 'freewheeling' mode incorporated. The SOC of the AIM SmartCable™ has access to 128MB of Global RAM and boot up flash memory.

Product variants include the single function and simulator only versions which offer cost savings compared to the full function version. For pure MIL-STD-1553 only applications, the model ASC1553 is available without the optional Auxiliary I/O interface (IRIG-B, Discrete and Trigger I/O).

The ASC1553-A and ASC1553 SmartCables™ are API compatible to the existing AIM MIL-STD-1553 product portfolio and support an easy migration of applications from the AIM APU1553-1 predecessor USB interface. AIM includes the driver software bundled into the price, supporting Windows, Linux and LabVIEW VIs. The PBA.pro (Light or Full version) Data Bus Test & Analysis Software is available as an option for Windows and Linux.

AIM has offices in the UK and the USA with the main design and manufacturing facilities based in Freiburg, Germany.

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