

Avionics interfaces for test & simulation

Reliable test and simulation products

Astronics Ballard Technology develops and manufactures reliable test and simulation interfaces for all standard protocols, including MIL-STD-1553, ARINC 429/708/717, Ethernet, serial and discrete.

When paired with CoPilot®, our industry-leading test & analysis software, they provide an easy and powerful way to interact with avionics databuses.



Portable USB interfaces

Connect your PC laptop, desktop and tablet computers to avionics databuses with Ballard's pocket-sized USB interfaces. Ease of use, versatility and comprehensive databus functionality have made these rugged adapters the industry favorite for avionics test, analysis and simulation in the lab and in the field.

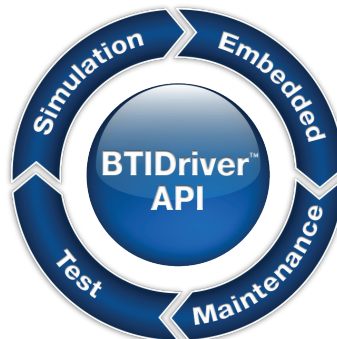


Powerful simulation solutions

Complete your simulation system with a high-performance databus interface from Ballard Technology. These powerful interfaces are the preferred choice for training systems, system integration labs (iron birds), and flight simulators.

Solutions that migrate with your project

As projects progress and evolve, it is often necessary to migrate from one interface platform or operating system to another. Ballard products share a universal API, so you won't need to rewrite code if things change. This software portability speeds deployment and protects your valuable programming investment.



Easy-to-use software

CoPilot® analyzer software

Be more productive with supporting software from Astronics Ballard Technology. CoPilot is an intuitive, graphical software program that allows you to easily monitor, record, replay, analyze, and simulate avionics bus data. With CoPilot you can interact directly with data on multiple buses using Astronics avionics interface hardware or work with previously recorded data. This



advanced program features powerful tools for development, testing, troubleshooting and maintenance of avionics equipment and systems.

The perfect complement

CoPilot is the perfect complement to Astronics' comprehensive line of hardware interface products for avionics databus protocols including MIL-STD-1553, EBR 1553, ARINC 429, ARINC 664, ARINC 708, ARINC 717 and others.

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	Product Family	Description	Platform	Protocols (max channel count*)
	CoPilot Test & Simulation Software	An intuitive, graphical software program that allows you to easily monitor, record, replay, analyze, and simulate avionics bus data.	Software	MIL-STD-1553 ARINC 429 ARINC 708 ARINC 717 EBR 1553 Serial Discrete I/O
	USB Multi	Interfaces your computer to multiple avionics databuses to communicate with, simulate, test, and monitor avionics systems.	USB 2.0	MIL-STD-1553 (1) ARINC 429 (6) ARINC 708 (2) ARINC 717 (4) EBR 1553 (1) Serial (4) Discrete I/O (8) Differential I/O (4)
	USB 1553	Enables computers to communicate with, simulate, test, and monitor MIL-STD-1553 equipment and systems.	USB 2.0	MIL-STD-1553 (2) Discrete I/O (8)
	USB 429/717	Enables computers to communicate with, simulate, test, and monitor ARINC 429/717 equipment and systems.	USB 2.0	ARINC 429 (16) ARINC 717 (4) Discrete I/O (8)
	USB 708	Pocket-sized adapters enable computers to interface with ARINC 708 and similar weather radar display databuses.	USB 2.0	ARINC 708 (4) Discrete I/O (8)
	OmniBusBox II	Enables computers and networks to interface with multiple avionics databuses for databus test and simulation in a lab environment.	Ethernet, USB 2.0, Stand-alone	MIL-STD-1553 (8) ARINC 429 (64) ARINC 708 (16) ARINC 717 (32) Discrete I/O (128)
	OmniBus II PXIe	Enable multi-slot PXIe and CPCle test systems to interface with multiple avionics databuses with flexible, modular I/O choices.	PXI Express (PXIe), Compact PCI Express	MIL-STD-1553 (4) ARINC 429 (32) ARINC 708 (8) ARINC 717 (16) Discrete I/O (64) TTL Discrete I/O (16)
	OmniBus II PCIe	These cards enable computers to interface with multiple avionics databuses with flexible, modular I/O choices.	PCI Express	MIL-STD-1553 (4) ARINC 429 (32) ARINC 708 (8) ARINC 717 (16) Discrete I/O (64) TTL Discrete I/O (16)
	Lx1553-5	These PCI and PCIe expansion cards enable personal computers to communicate with MIL-STD-1553 systems.	PCI, PCI Express (PCIe)	MIL-STD-1553 (4) Discrete I/O (16)
	Lx429-5	These PCI and PCIe expansion cards enable personal computers to communicate with ARINC 429 and ARINC 717 systems.	PCI, PCI Express (PCIe)	ARINC 429 (32) ARINC 717 (4) Discrete I/O (16)
	TS 717	Portable USB-powered test set that enables Windows computers to display ARINC 717/573 data from a DFDR or DFDAU.	USB 2.0	ARINC 429 (12) ARINC 717 (4) Discrete I/O (8)
	webFLT	ARINC 717 tester transfers data to the test computer via a wireless link, eliminating cabling in the crowded cockpit.	IEEE 802.11 b/g	ARINC 717 (3)

Optional Services (additional charges apply)

Extended Warranty

Multiple options to extend product warranty coverage

Get more product information at:

Astronics.com/BallardTechnology

Astronics Ballard Technology

11400 Airport Road

Everett, WA 98204 USA

P: +1.425.339.0281

E: Ballard.Sales@astronics.com

* Maximum channels per protocol. Combining protocols may reduce channel counts.