

# Data Bus Solutions: Computer Systems



DDC is the world leader in the design and manufacture of MIL-STD-1553 technology, offering a broad array of field proven box level solutions, circuit card assemblies, hybrid components, multi-chip modules, and software for aerospace and defense applications. DDC's market leading processor based data bus solutions enable efficient avionics and vetronics systems design and upgrades by providing seamless connectivity between MIL-STD-1553/1760, ARINC 429, Fibre Channel, Ethernet, and other protocols.

## Secure 1U Dual Server

BU-67127W



### Secure Server & Cross Domain Solution

- Security-Enhanced (SE) Linux OS
- Hardware isolated on red / black sides
- Requires minimal administration and is suitable for remote operations

## Rugged AIC

BU-67124W



### Rugged Avionics Interface Computer

- Field-Proven High TRL Hardware and Software Solution Saves Development Time and Costs.
- Dual Gigabit Ethernet Interfaces for Network Connectivity and Bridging to MIL-STD-1553 or ARINC 429
- Many Configuration Options Supported with (1) XMC Site and (2) Mini-PCIe Sites

## Compact AIC

BU-67125W



### Compact Avionics Interface Computer

- Configurable mPCIe and I/O Expansion Modules to Support Wide Range of I/Os
- Customizable Off-the-Shelf, Ruggedized Solution Enables Faster Time-to-Market
- Custom Front Panel Connector Configurations to Support Unique Deployed I/O Requirements

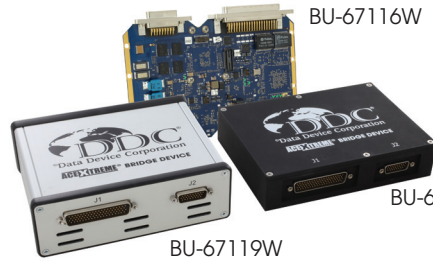
Features	Secure 1U Dual Server ( BU-67127W )	Rugged AIC ( BU-67124W )	Compact AIC ( BU-67125W )
<b>Modes of Operation*</b>	Secure Data Filtering	Protocol Conversion, Remote Access	Protocol Conversion, Remote Access
<b>Processor</b>	2.4GHz Intel i7 Quad Core Haswell	1.8 GHz Intel Core i5	1.91 GHz Intel® Atom™ E3825 or E3845 Processor Modules
<b>Memory</b>	DDR3 DRAM 16 GB	DDR3 DRAM scalable 4GB, 8 GB, 16GB	DDR3 DRAM 2 GB
<b>Storage</b>	—	Solid-State Drive (SSD) 64GB to 512GB	
<b>Networking</b>	1x 10/100/1000 Ethernet	2x 10/100/1000 Ethernet	
<b>I/O Interfaces</b>	1x USB 2.0 Port	1x RS-232, 4x RS-422, 2x USB 2.0 Ports 16x GPIOs	RS-232, RS-232/485/422, 3x USB 2.0, 1x USB 3.0 16x GPIOs
<b>Video / Audio</b>	1x VGA	1x VGA	DVI, HD Audio
<b>Data Supported</b>	Full Motion Video, Imagery, XML, MS Office, PDF, UDP Data Streams	MIL-STD-1553, ARINC 429	1553, 429/717, Ethernet, CANBus, Video, Solid-State Power Control, Motor Control and Feedback
<b>Power</b>	120 VAC (Isolated power supplies)	28VDC, MIL-STD-704 / 1275	
<b>Operating System</b>	SE Linux	Linux, Windows	
<b>Operating Temperature</b>	-10°C to +50°C	-40°C to +85°C	
<b>Enclosure</b>	18 .875 x 26 x 1.75 in (479.4 x 660.4 x 44.5 mm)	8.5 x 7.0 x 3.4 in (215.6 x 177.8 x 86.2mm)	5.5 x 5.0 x 1.75 in (140 x 127 x 44.4 mm)
<b>Weight</b>	20lbs (9.10 kg)	< 7lbs (3.18 kg)	< 2lbs (0.91kg)
<b>Security</b>	Certified	Optional	Optional

\*The AIC is also able to operate in *Standalone Mode* as a computer.

Note: For more information on DDC's Data Bus Computer Systems and secure data solutions, please visit: [www.ddc-web.com/computers](http://www.ddc-web.com/computers).  
For compatible data bus boards, modules, and software solutions, please visit: [www.ddc-web.com/databus](http://www.ddc-web.com/databus)



BU-67121W



BU-67119W

BU-67115W



Features	Avionics Interface Computer (BU-67121W)	AceXtreme® Bridge Device		
		(BU-67119W)	(BU-67115W)	(BU-67116W)
Modes of Operation*	Protocol Conversion, Remote Access	Protocol Conversion, Remote Access	Protocol Conversion, Remote Access	Protocol Conversion, Remote Access
Processor	1.91GHz Intel Atom E3845 Quad Core	1GHz Intel Atom E640T		
Storage	30 GB SSD	8 GB SSD		
Memory	2GB DDR3L SDRAM	—	2 MB RAM	
Networking	1x 10/100/1000 Ethernet	2x 10/100/1000 Ethernet		
I/O Interfaces	RS-232, 2x USB 2.0	—		
Data Supported	MIL-STD-1553, ARINC 429			
Video / Audio	1x VGA	—		
Power	120 VAC	28V Power (MIL-STD-704 / 1275)		28V Power (MIL-STD-704 / 1275)
Operating System	Linux			
Operating Temperature	0°C to +55°C	0°C to +55°C	-40°C to +71°C	-40°C to +85°C
Enclosure	6.7 x 7.4 x 2.1 in (170 x 188 x 53 mm)	6.67 x 5.28 x 2.19 in (169.4 x 134.1 x 55.6 mm)	6.92 x 5.05 x 1.49 in (176 x 128 x 37.8 mm)	6.31 x 4.20 x 1.15 in (160 x 107 x 29.2 mm)
Weight	2.7lbs (1.2 kg)	26.0 oz. (737 g)	35.3 oz. (1000 g)	17.64 oz. (500 g)
Security	Optional	Optional	Optional	Optional

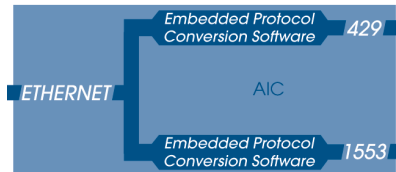
Modes of Operation

Protocol Conversion and Remote Access

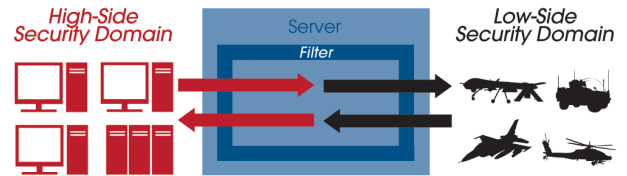
Remote Access



Protocol Conversion



Secure Data Filtering



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For ordering assistance and technical support,

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