













Data Bus Solutions: Components










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 offers market leading data bus solutions for MIL-STD-1553/1760, ARINC 429, AFDX@/ARINC 664, Fibre Channel, Ethernet, and other protocols.

MIL-STD-1553 Components






Product	Product Number	1553 Function						Subsystem Interface				Package					Operating Temperature Range (°C)	Min Size (W x L x H) mm (in)	
		Transceiver	Transformer	Protocol	RAM	BC	RT	MT	Local Bus	PCI	PCIe	Simple System	SPI	BGA	Flat Pack	Gull Lead			DIP
Fully Integrated 1553 Package (includes Protocol, Transceivers, and Transformers)																			
Total-AceXtreme®		BU-67301B	■	■	■	■	■	■	■					■				-55 to +125	16 x 16 x 4.7 (0.63 x 0.63 x 0.185)
Total-ACE®		BU-6X8X3T/U/H/I8	■	■	■	■	■	■	■		■			■				-55 to +125	15.2 x 27.9 x 4.7 (0.6 x 1.1 x 0.185)
Plastic Multi-Chip 1553 Module (includes Protocol and Transceivers)																			
Nano-ACE		BU-67743LC	■	■	■	■	■										■	-55 to +125	7 x 7 x 1 (0.28 x 0.28 x 0.39)
		BU-67753LC	■	■	■	■	■										■		
		BU-67833LC	■	■	■	■	■										■		
PCI-Express AceXtreme®		BU-67302B0C0L	■	■	■	■	■			■				■				-40 to +85	15 x 20 x 3.8 (0.59 x 0.79 x 0.15)
Micro-ACE-TE		BU-64X4XBX-E02	■	■	■	■	■	■			■			■				-55 to +125	20.7 x 20.7 x 3.05 (0.8 x 0.8 x 0.120)
Micro-ACE®		BU-61XX0B3	■	■	■	■	■	■						■				-40 to +85	
PCI Micro-ACE-TE		BU-65XX3BX-E02	■	■	■	■	■	■			■				■				
Ceramic Hybrid 1553 Terminal (includes Protocol and Transceivers)																			
Mini-ACE® Mark3		BU-64XX3	■	■	■	■	■	■						■	■			-55 to +125	22.35 x 22.35 x 3.3 (0.88 x 0.88 x 0.13)
PCI Mini-ACE Mark3		BU-65XX3	■	■	■	■	■			■				■	■			-55 to +125	
Enhanced Mini-ACE		BU-61XXX	■	■	■	■	■	■						■	■			-55 to +150	25.4 x 25.4 x 3.3 (1.0 x 1.0 x 0.13)
PCI Enhanced Mini-ACE		BU-62XXX	■	■	■	■	■			■				■	■			-55 to +125	
Radiation Tolerant 1553 Space Terminals (includes Protocol and Transceivers)																			
SP'ACE RT II		BU-63705	■	■	■	■	■	■			■				■	■	■	-55 to +125	45.7 x 53.3 x 5.3 (1.8 x 2.1 x 0.21)
SP'ACE II BC/RT/MT		BU-63825	■	■	■	■	■	■							■	■	■	-55 to +125	48.26 x 25.4 x 5.46 (1.9 x 1.0 x 0.215)
Radiation Tolerant 1553 Space Device (includes Transceivers and Transformers)																			
SPACE-PHY		BU-67402	■	■											■	■		-55 to +125	25.4 x 25.4 x 6.35 (1 x 1 x 0.25)
Radiation Tolerant Fully Integrated 1553 Space Package (includes Protocol, Transceiver and Transformers)																			
Total-Space ACE		BU-67521	■	■	■	■	■	■	■						■	■		-55 to +125	41.4 x 28.7 x 6.35 (1.63 x 1.13 x 0.25)
Total-Space RT		BU-67502	■	■	■	■	■	■	■		■				■	■		-55 to +125	41.4 x 28.7 x 6.35 (1.63 x 1.13 x 0.25)

Note: For more information on DDC's Data Bus Computer Systems and secure data solutions, please visit: www.ddc-web.com/components.

MIL-STD-1553 Components

Product	Product Number	1553 Function		Supply Voltages		Package				Turns Ratio		Operating Temperature Range (°C)	Min Size W x L x H mm (W x L x H in)
		Transceiver	Transformer	Digital		Flat Pack	Gull Lead	DIP	LPCC/QFN	Direct Coupled	Transformer Coupled		
				3.3V	5V								
Dual 3.3V Transceiver	 BU-67401L	■		■						1:2.65	1:2.07	-55 to +125	7 x 7 x 1 (0.28 x 0.28 x 0.040)
Single 5V Transceiver	 BU-63155	■			■					1:2.5	1:1.79	-55 to +125	7 x 7 x 1 (0.28 x 0.28 x 0.040)
Dual 5V Transceiver	 BU-63152	■			■					1:2.5	1:1.79	-55 to +85	14 x 14 x 2 (0.551 x 0.551 x 0.08)
Single 3.3V Transceiver and Transformer	 NHI-15LV901	■	■	■						1:3.54	1:2.5	-55 to +125	10.2 x 10.2 x 5.08 (0.400 x 0.400 x 0.200)
Dual 5V Transceiver	 NHI-1565CSP	■			■					1:3.54	1:2.5	-55 to +125	7 x 7 x 2 (0.28 x 0.28 x 0.078)
Dual 5V Transceiver	 NHI-1565ESOIC-1	■			■					1:3.54	1:2.5	-55 to +125	10.3 x 12.8 x 2.16 (0.407 x 0.504 x 0.085)
Dual 5V Transceiver	 NHI-1567	■			■	■				1:3.54	1:2.5	-55 to +125	25.4 x 7.62 x 2.79 (1.000 x 0.300 x 0.110)

ARINC 429 Components

Product	Product Number	429 Functions								Supply Voltages		Package				Operating Temperature Range (°C)	Min Size W x L x H mm (W x L x H in)		
		Channels		FIFO (words)		Label Filter Depth	Integrated Line Driver	Integrated Line Receiver	Test Mode	Tri State Output	Digital		Line Driver	TQFP	PQFP			SOIC	TSSOP
		Tx	Rx	Tx	Rx						3.3V	5V							
 DD-00429	DD-00429	2	4	32	32	128			■		■		■	■				-40 to +85	22 x 22 x 1.50 (0.866 x 0.866 x 0.059)
 DD-42900	DD-42900	2	4	32	32	128			■	■				■				-40 to +85	27.99 x 27.99 x 3.71 (1.102 x 1.102 x 0.146)
 DD-4107X	DD-4107X	1							■	■	■							-55 to +125	6.00 x 4.90 x 1.53 (0.236 x 0.193 x 0.060)
 DD-41041	DD-41041		1															-55 to +125	4.90 x 6.00 x 1.75 (0.19 x 0.24 x 0.069)
 DD-41044	DD-41044		4															-55 to +125	6.40 x 6.40 x 1.08 (0.25 x 0.25 x 0.043)



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