













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)																			
SPiACE RT II		BU-63705	■	■					■						■	■	■	-55 to +125	45.7 x 53.3 x 5.3 (1.8 x 2.1 x 0.21)
SPiACE 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, Transceivers 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 Component solutions, please visit: www.ddc-web.com/dbcomponents.

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	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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