



Device Engineering Inc. Standard Product Selection Matrix - Page 1

Device Engineering is pleased to provide you with this product line selection chart with all available options. Please visit our website at <http://www.deiaz.com> to download data sheets and view our entire line of avionics products.

Device Engineering Part Number	Package Type	Temp Range (2)	429 Tx Channels	422 Mode	Tristate	Output Resistance							Fused Outputs	+/- 5V PSU	Burn-in	Comments, (Notes), Board Real Estate
						0 Ω	7.5 Ω	5 Ω	10 Ω	13 Ω	27.5 Ω	37.5 Ω				
BD429	16L CERDIP	M	1	X							X	X	X			
BD429A-G	16L SOIC WB	E	1	X							X	X				
BD429A1-G	16L SOIC WB	E	1	X							X	X	X			
BD429B	28L PLCC	E	1	X							X	X				
BD429B-G	28L PLCC	E	1	X							X	X				
DEI0429-NES (5)	16L PDIP	E	1	X							X	X		Obsolete		
DEI0429-WMS	16L CSOP	M	1	X							X	X				
DEI1022-G	14L SOIC NB	E	1								X					
DEI1023-G	14L SOIC NB	E	1								X	X				
DEI1024-G	14L SOIC NB	E	1		X											
DEI1025-G	14L SOIC NB	E	1		X							X				
DEI1032-G	16L SOIC NB	E	1	X	X											
DEI1038	28L PLCC	E	1	X				X								
DEI1070A-SES-G (6)	8L EP SOIC	E	1								X			(6)		
DEI1071A-SES-G (6)	8L EP SOIC	E	1					X						(6)		
DEI1072A-SES-G (6)	8L EP SOIC	E	1		X									(6)		
DEI1073A-SES-G (6)	8L EP SOIC	E	1	X							X			(6)		
DEI1074A-SES-G (6)	8L EP SOIC	E	1	X				X						(6)		
DEI1075A-SES-G (6)	8L EP SOIC	E	1	X	X									(6)		
DEI1170A-MES-G (6)	20L MLPQ	E	1	X	X			X			X			Isol. Tab, 25 sq mm		
DEI1171A-MES-G	20L MLPQ	E	1	X	X			X			X			Isol. Tab, 25 sq mm		
DEI3182A-CMS	16L CERDIP	M	1		X						X					
DEI3182A-CMB	16L CERDIP	M	1		X						X		X			
DEI3182A-DMS	16L SB CDIP	M	1		X						X					
DEI1270A-MES-G	38L MLPQ	E	2	X	X			X			X			Cond. Tab		
DEI1271A-MES-G	38L MLPQ	E	2	X	X			X			X			Isol. Tab		
DEI5070-SES-G	8L EP SOIC	E	1								X	X		Isol. Tab		
DEI5070-SMS-G	8L EP SOIC	M	1								X	X		Isol. Tab		
DEI5071-SES-G	8L EP SOIC	E	1								X	X		Isol. Tab		
DEI5071-SMS-G	8L EP SOIC	M	1								X	X		Isol. Tab		
DEI5072-SES-G	8L EP SOIC	E	1		X						X			Isol. Tab		
DEI5072-SMS-G	8L EP SOIC	M	1		X						X			Isol. Tab		
DEI5090-SES-G	16L EP SOIC	E	1			X					X					
DEI5090-SMS-G	16L EP SOIC	M	1			X					X					
DEI5090-MES-G	16L MLPQ	E	1			X					X					
DEI5090-MMS-G	16L MLPQ	M	1			X					X					
DEI5270-MES-G	38L C MLPQ	E	2		X						X	X	X	Isol. Tab, 35 sq mm		
DEI5270-MMS-G	38L C MLPQ	M	2		X						X	X	X	Isol. Tab, 35 sq mm		

ARINC 429 Line Drivers

Device Engineering Part Number	Package Type	Temp Range (3)	Channels	Lightning Protect	Single PSU	Burn-in	Comments, (Notes), Board Real Estate
DEI1016	40L SB DIP	M	3*		5	X	
DEI1016A (4)	44L PQFP	E	3*		5		
DEI1016A-G	44L PQFP	E	3*		5		
DEI1016B (4)	44L PLCC	E	3*		5		
DEI1016B-G	44L PLCC	E	3*		5		
DEI1016-EMS	44L CLCC	M	3*		5		
DEI1016-MES-G (5)	44L MLPQ	E	3*		5		
DEI1016-MMS-G (5)	44L MLPQ	M	3*		5		
DEI1016-MMS-G (5)	44L MLPQ	M	3*		5		
DEI1016-QMS	44L PQFP	M	3*		5		
DEI1016-QMS-G	44L PQFP	M	3*		5		
DEI1116-QES	44L PQFP	E	3*		3		
DEI1116-QMS	44L PQFP	M	3*		3		
DEI1116-PES	44L PLCC	E	3*		3		
DEI1116-PMS	44L PLCC	M	3*		3		
DEI1117-QES	44L PQFP	E	3*	↗	3		
DEI1117-QMS	44L PQFP	M	3*	↗	3		
DEI1117-PES	44L PLCC	E	3*	↗	3		
DEI1117-PMS	44L PLCC	M	3*	↗	3		
DEI1084-QES-G	52L MQFP	E	3*	↗	3		
DEI1084-QMS-G	52L MQFP	M	3*	↗	3		
DEI1084-MES-G	64L MLPQ	E	3*	↗	3		
DEI1084-UMS (5)	52L CQFJ	M	3*	↗	3		
DEI1085-QES-G	52L MQFP	E	3*	↗	3		
DEI1085-QMS-G	52L MQFP	M	3*	↗	3		
DEI1085-MES-G	64L MLPQ	E	3*	↗	3		
DEI1085-UMS (5)	52L CQFJ	M	3*	↗	3		
DEI2084-MES-G	64L MLPQ	E	3*	↗	3		
DEI2084-MMS-G	64L MLPQ	M	3*	↗	3		
DEI2085-MES-G	64L MLPQ	E	3*	↗	3		
DEI2085-MMS-G	64L MLPQ	M	3*	↗	3		
DEI3093-QES-G	44L PQFP	E	3*	↗	3		
DEI3093-QMS-G	44L PQFP	M	3*	↗	3		
DEI3093-MES-G	44L MLPQ	E	3*	↗	3		
DEI3093-MMS-G	44L MLPQ	M	3*	↗	3		

ARINC 429 Transceivers

*Industry standard ARINC 429 transceiver with 2 Receive channels and 1 Transmit channel
 DEI1016/1116 plug comp w/ HI-8282 & HI-8282A
 DEI1084/1085 plug comp w/ HI-3584 & HI-8584
 DEI3093 plug comp w/ HI-3593

Notes:

- (1) - New Product. Contact factory for price and availability.
- (2) - E = -55C to +85C; K = -55C to +105C; M = -55C to +125C; A = -40C to +125C

- (3) - Most parts are only available RoHS compliant (with -G suffix)
- (4) - EOL - Discontinued but stock still available
- (5) - OBS - Discontinued no stock available
- (6) - DEI107XA also available in -SMS-G and -SMB-G versions



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	Device Engineering Part Number	Package Type	Temp Range (3)	Channels	Ext 40k Ω	Lightning Protect	Single PSU	Burn-in	Comments, (Notes), Board Real Estate
ARINC 429 Receivers	DEI1041-SES-G	8L SOIC	E 1	1	✓	3			Single Line w/ Test
	DEI1041-SMS-G	8L SOIC	M 1	1	✓	3			Single Line w/ Test
	DEI1041-SMB-G	8L SOIC	M 1	1	✓	3	X		Single Line w/ Test
	DEI3283-SAS	20L SOIC	A 2	2					Dual Line w/ Test
	DEI3283-SAS	20L SOIC	A 2	2					Dual Line w/ Test
	DEI3283-SES	20L SOIC	E 2	2					Dual Line w/ Test
	DEI3283-CMS	20L CERDIP	M 2	2					Dual Line w/ Test
	DEI3283-EMS	20L CLCC	M 2	2					Dual Line w/ Test
	DEI3283-SAB	20L SOIC	A 2	2				X	Dual Line w/ Test
	DEI3283-CMB	20L CERDIP	M 2	2				X	Dual Line w/ Test
	DEI3283-EMB	20L CLCC	M 2	2				X	Dual Line w/ Test
	DEI1044-G (4)	20L TSSOP	E 4	4	✓	3			Quad Line w/ Test
	DEI1044-TMS-G (4)	20L TSSOP	M 4	4	✓	3			Quad Line w/ Test
	DEI1045-G (4)	20L TSSOP	E 4	4	✓	3			Quad Line
	DEI1045-TMS-G (4)	38L TSSOP	M 4	4	✓	3			Quad Line
	DEI1044A-TES-G (1)	20L TSSOP	E 4	4	✓	3			Quad Line w/ Test; Repl DEI1044
	DEI1044A-TMS-G (1)	20L TSSOP	M 4	4	✓	3			Quad Line w/ Test; Repl DEI1044
	DEI1045A-TES-G (1)	20L TSSOP	E 4	4	✓	3			Quad Line w/ Test; Repl DEI1045
	DEI1045A-TMS-G (1)	38L TSSOP	M 4	4	✓	3			Quad Line w/ Test; Repl DEI1045
	DEI1046-TES-G (5)	38L TSSOP	E 8	8	✓	3			Octal Line w/ Test
	DEI1046-TMS-G (5)	38L TSSOP	M 8	8	✓	3			Octal Line w/ Test
	DEI1046A-TES-G (1)	38L TSSOP	E 8	8	✓	3			Octal Line w/ Test; Repl DEI1046
	DEI1046A-TMS-G (1)	38L TSSOP	M 8	8	✓	3			Octal Line w/ Test; Repl DEI1046
	DEI1047-TES-G (4)	38L TSSOP	E 8	8	✓	3			Octal Line
	DEI1047-TMS-G (4)	38L TSSOP	M 8	8	✓	3			Octal Line
	DEI1049-TES-G (1)	38L TSSOP	E 8	8	X	✓	3		Octal Line
	DEI1049-TMS-G (1)	38L TSSOP	M 8	8	X	✓	3		Octal Line
	DEI1148-QES-G	44L MQFP	E 8	8	✓	3			Octal Line w/ Test
DEI1148-QMS-G	44L MQFP	M 8	8	✓	3			Octal Line w/ Test	

Notes:

- (1) - New Product. Contact factory for price and availability.
- (2) - E = -55C to +85C; K = -55C to +105C; M = -55C to +125C; A = -40C to +125C
- (3) - Most parts are only available RoHS compliant (with -G suffix)
- (4) - EOL - Discontinued but stock still available
- (5) - OBS - Discontinued no stock available

	Device Engineering Part Number	Package Type	Temp Range (3)	Channels	Lightning Protect	Single PSU	Burn-in	Comments, (Notes), Board Real Estate
Discrete to Digital	DEI1026A-SES-G	16L SOIC NB	E 6	6	✓	5		GND/Open
	DEI1026A-SMS-G	16L SOIC NB	M 6	6	✓	5		GND/Open
	DEI1026A-WMS	16L CSOP	M 6	6	✓	5		GND/Open
	DEI1026A-WMB	16L CSOP	M 6	6	✓	5	X	GND/Open
	DEI1054-G	16L SOIC NB	E 6	6	✓	5		28V/ Open
	DEI1054-SMS-G	16L SOIC NB	M 6	6	✓	5		28V/ Open
	DEI1054-WMB	16L CSOP	M 6	6	✓	5	X	28V/ Open
	DEI1066-SES-G	16L SOIC NB	E 8	8	✓			GND/Open with Serial Output
	DEI1066-SMS-G	16L SOIC NB	M 8	8	✓			GND/Open with Serial Output
	DEI1066-WMS	16L CSOP	M 8	8	✓			GND/Open with Serial Output
	DEI1066-WMB	16L CSOP	M 8	8	✓		X	GND/Open with Serial Output
	DEI1067-SES-G	16L SOIC NB	E 8	8	✓			ARINC735A Open/ GND, Serial Output
	DEI1160-SES (5)	16L EP SOIC	E 8	8	✓			Prog GND/Open, 28v/Open, 28v/GND
	DEI1160-SMS (5)	16L EP SOIC	M 8	8	✓			Prog GND/Open, 28v/Open, 28v/GND
	DEI1160A-SES	16L EP SOIC	E 8	8	✓			Prog GND/Open, 28v/Open, 28v/GND; Repl DEI1160
	DEI1160A-SMS	16L EP SOIC	M 8	8	✓			Prog GND/Open, 28v/Open, 28v/GND; Repl DEI1160
	DEI1166-TES-G	24L TSSOP	E 8	8	✓			GND/Open, w/ Parallel O/P
	DEI1166-TMS-G	24L TSSOP	M 8	8	✓			GND/Open, w/ Parallel O/P
	DEI1167-TES-G	24L TSSOP	E 8	8	✓			GND/Open, w/ Parallel O/P
	DEI1167-TMS-G	24L TSSOP	M 8	8	✓			GND/Open, w/ Parallel O/P
	DEI1184-SES	16L EP SOIC	E 8	8	✓			Prog GND/Open, 28v/Open, 28v/GND, ABD0100H
	DEI1184-SES-G	16L EP SOIC	M 8	8	✓			Prog GND/Open, 28v/Open, 28v/GND, ABD0100H
	DEI1184-SMS	16L EP SOIC	M 8	8	✓			Prog GND/Open, 28v/Open, 28v/GND, ABD0100H
	DEI1188-SES	16L EP SOIC	E 8	8	✓			GND/Open, w/ Ser O/P, Meets ABD0100H
	DEI1188-SES-G	16L EP SOIC	M 8	8	✓			GND/Open, w/ Ser O/P, Meets ABD0100H
	DEI1188-SMS	16L EP SOIC	M 8	8	✓			GND/Open, w/ Ser O/P, Meets ABD0100H
	DEI1198-TES-G	24L TSSOP	E 8	8	✓			GND/Open, w/ Parallel O/P, Meets ABD0100H
	DEI1198-TMS-G (1)	24L EP TSSOP	M 8	8	✓			GND/Open, w/ Parallel O/P, Meets ABD0100H
DEI1282-SES-G	16L EP SOIC	E 8	8	✓			Prog GND/Open, 28v/Open, Meets ABD0100H	
DEI1282-SMS	16L EP SOIC	M 8	8	✓			Prog GND/Open, 28v/Open, Meets ABD0100H	
DEI1282-SMS-G	16L EP SOIC	M 8	8	✓			Prog GND/Open, 28v/Open, Meets ABD0100H	
DEI1284-SES-G	16L EP SOIC	E 8	8	✓			Prog GND/Open, 28v/Open, Meets ABD0100H, L4 & 5	
DEI1284-SMS-G	16L EP SOIC	M 8	8	✓			Prog GND/Open, 28v/Open, Meets ABD0100H, L4 & 5	
Misc	DEI1028-SES-G	8L SOIC NB	E					Transient voltage clamp for 28v bus
	DEI1028-SKS-G (1)	8L SOIC NB	K					Transient voltage clamp for 28v bus
	DEI1030-G	8L SOIC NB	E					Lighting bus mapping circuit
	DEI1090-SES-G	16L SOIC WB	E 8					Square Law LED Dimmer
	DEI1090-MES-G	20L MLPQ	E 8					Square Law LED Dimmer
	DEI1604-MIS (1)	12L DFN	E 1	✓				Bidirectional lightning surge protector w/ on-board fuse
DEI1606-MIS (1)	8L DFN	E 1	✓				Bidirectional lightning surge protector w/o on-board fuse	