



# Device Engineering Inc. Standard Product Selection Matrix - Page 1

Device Engineering is pleased to provide you with this product line selection chart with all of the 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 (3)	429 Tx Channels	422 Mode	Tristate	Output Resistance					Fused Outputs	+/- 5V PSU	Burn-in	Comments, (Notes), Board Real Estate	
						0 Ω	7.5 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				
DEI0429-NES	16L PDIP	E	1	X						X	X				
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	8L EP SOIC	E	1							X			(3)		
DEI1071A-SES-G	8L EP SOIC	E	1				X						(3)		
DEI1072A-SES-G	8L EP SOIC	E	1		X								(3)		
DEI1073A-SES-G	8L EP SOIC	E	1	X						X			(3)		
DEI1074A-SES-G	8L EP SOIC	E	1	X			X						(3)		
DEI1075A-SES-G	8L EP SOIC	E	1	X	X								(3)		
DEI1170A-MES-G	20L MLPQ	E	1		X	X	X			X			DEI Product Matrix		
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 (1)	8L EP SOIC	E	1							X	X		Isol. Tab		
DEI5070-SMS-G (1)	8L EP SOIC	M	1							X	X		Isol. Tab		
DEI5071-SES-G (1)	8L EP SOIC	E	1							X		X	Isol. Tab		
DEI5071-SMS-G (1)	8L EP SOIC	M	1							X		X	Isol. Tab		
DEI5072-SES-G (1)	8L EP SOIC	E	1			X				X		X	Isol. Tab		
DEI5072-SMS-G (1)	8L EP SOIC	M	1			X				X		X	Isol. Tab		
DEI5270-MES-G (1)	38L C MLPQ	E	2			X				X	X	X	Isol. Tab, 35 sq mm		
DEI5270-MMS-G (1)	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	44L PQFP	E	3*		5		
DEI1016A-G	44L PQFP	E	3*		5										
DEI1016B	44L PLCC	E	3*		5										
DEI1016B-G	44L PLCC	E	3*		5										
DEI1016-MMS	44L CLCC	M	3*		5										
DEI1016-MES-G	44L MLPQ	E	3*		5										
DEI1016-MMS-G	44L MLPQ	M	3*		5										
DEI1016-PMS	44L PLCC	M	3*		5										
DEI1016-PMS-G	44L PLCC	M	3*		5										
DEI1016-QMS	44L PQFP	M	3*		5										
DEI1016-QMS-G	44L PQFP	M	3*		5										
DEI1116-QES (1)	44L PQFP	E	3*		3										
DEI1116-QMS (1)	44L PQFP	M	3*		3										
DEI1116-PES (1)	44L PLCC	E	3*		3										
DEI1116-PMS (1)	44L PLCC	M	3*		3										
DEI1117-QES (1)	44L PQFP	E	3*	⚡	3										
DEI1117-QMS (1)	44L PQFP	M	3*	⚡	3										
DEI1117-PES (1)	44L PLCC	E	3*	⚡	3										
DEI1117-PMS (1)	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	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	52L CQFJ	M	3*	⚡	3										
DEI2084-MES-G (1)	64L MLPQ	E	3*	⚡	3										
DEI2084-MMS-G (1)	64L MLPQ	M	3*	⚡	3										
DEI2085-MES-G (1)	64L MLPQ	E	3*	⚡	3										
DEI2085-MMS-G (1)	64L 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

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

(3) - DEI107XA available in hermetic package (-DMS). Contact factory for price & availability  
 (4) - Most parts are available RoHS compliant with -G suffix



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

**Notes:**

- (1) - New Product. Contact factory for price and availability.
- (2) - E = -55C to +85C; M = -55C to +125C; A = -40C to +125C
- (3) - Most parts are available RoHS compliant with -G suffix

	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	✓	5		GND/Open
	DEI1026A-SMS-G	16L SOIC NB	M	6	✓	5		GND/Open
	DEI1026A-WMS	16L CSOP	M	6	✓	5		GND/Open
	DEI1026A-WMB	16L CSOP	M	6	✓	5	X	GND/Open
	DEI1054-G	16L SOIC NB	E	6	✓	5		28V/ Open
	DEI1066-SES-G	16L SOIC NB	E	8	✓			GND/Open with Serial Output
	DEI1066-SMS-G	16L SOIC NB	M	8	✓			GND/Open with Serial Output
	DEI1066-WMS	16L CSOP	M	8	✓			GND/Open with Serial Output
	DEI1066-WMB	16L CSOP	M	8	✓		X	GND/Open with Serial Output
	DEI1067-SES-G	16L SOIC NB	E	8	✓			ARINC735A Open/ GND, Serial Output
	DEI1160-SES	16L EP SOIC	E	8	✓			Prog GND/Open, 28v/Open, 28v/GND
	DEI1160-SMS	16L EP SOIC	M	8	✓			Prog GND/Open, 28v/Open, 28v/GND
	DEI1166-TES-G	24L TSSOP	E	8	✓			GND/Open, w/ Parallel O/P
	DEI1166-TMS-G	24L TSSOP	M	8	✓			GND/Open, w/ Parallel O/P
	DEI1167-TES-G	24L TSSOP	E	8	✓			GND/Open, w/ Parallel O/P
	DEI1167-TMS-G	24L TSSOP	M	8	✓			GND/Open, w/ Parallel O/P
	DEI1184-SES	16L EP SOIC	E	8	✓			Prog GND/Open, 28v/Open, 28v/GND, ABD0100H
	DEI1184-SES-G	16L EP SOIC	M	8	✓			Prog GND/Open, 28v/Open, 28v/GND, ABD0100H
	DEI1184-SMS	16L EP SOIC	M	8	✓			Prog GND/Open, 28v/Open, 28v/GND, ABD0100H
	DEI1188-SES	16L EP SOIC	E	8	✓			GND/Open, w/ Ser O/P, Meets ABD0100H
	DEI1188-SES-G	16L EP SOIC	M	8	✓			GND/Open, w/ Ser O/P, Meets ABD0100H
	DEI1188-SMS	16L EP SOIC	M	8	✓			GND/Open, w/ Ser O/P, Meets ABD0100H
	DEI1198-TES-G (1)	24L TSSOP	E	8	✓			GND/Open, w/ Parallel O/P, Meets ABD0100H
DEI1282-SES-G (1)	16L EP SOIC	E	8	✓			Prog GND/Open, 28v/Open, Meets ABD0100H	
DEI1282-SMS-G (1)	16L EP SOIC	M	8	✓			Prog GND/Open, 28v/Open, Meets ABD0100H	
Misc	DEI1028-SES-G	8L SOIC NB	E					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 (1)