SCALEXIO

																				I/O Fu	ınctio	n																
Pailure Insertion Unit integrated Number of channels					In											Out																						
			ilure Insertion Unit integrated	e	Current In Triggered Current In	Voltage In Multi Bit In	Trigger In	Digital Pulse Capture	PWM/PFM In	Current Signal Capture Voltage Signal Capture	Digital Incremental Encoder In	Hall Encoder In	Resolver In	SSI Master	Injection/Ignition Current In	Extension ¹⁾ Injection/lanition Voltage In	Extension ¹⁾	SENT In	Current Sink	Multi Bit Out	Digital Pulse Out	Potentiometer Out	PWM/PFM Out	Multi-Channel PWM Out	Block Commutated PWM Out	Wavetable Digital Out	Wavetable Voltage Out	Angular Wavetable Digital Out	Angular Wavetable Voltage Out	Wheelspeed Out	Waveform Current Sink	Waveform Voltage Out	Waveform Digital Out Crank/Cam Current Sink	Crank/Cam Digital Out	Crank/Cam Voltage Out	Knock Signal Out	Lambda NCCR ³⁾	SENT Out
	Decrease his we	A 1 1 4	Fa] ≒ 5	δ Ξ	=	<u>ה</u>	₹	3 %	֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֟֓֓֓֟֓֟֓֟֓	: ±	a g	SS	<u>=</u>	<u>-</u>		띯	3 5	Ē	ا ق	8 8	A 9	Ē	ă ×	\$		4	ج ب <u>ج</u>			3	≥ິ ບັ	ט ט	טֿ	조 교	ב ו	SE
	DS6101 Multi-I/O Board	Analog In 4		10		√ ✓				√							√																					
		Analog In 5		12			·																														✓	
		Digital In 3 Flexible In 3		10		✓ ✓				√						√	· 🗸	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \																				
I/O Channels		Analog Out 6		8		· ·	•	•	•	Ť						· ·	·	Ť	✓	,							1		√			√			√			
		Analog Out 7	8	1															· ·													<i>,</i>				✓	/ /	
		Analog Out 8		3																							√		√			✓ ·			√			
		Analog Out 9		4															✓	,					✓		✓		√	√	√	√	✓		√			
		Digital Out 3		14																	√		✓			√		√	√	,		,	✓	✓				✓
		Resistance Out 2		6																		✓ v	/													✓	✓ ✓	
	DS6121 Multi-I/O	Analog In 16		6		✓				✓																												
	Board	Resolver In 2		1									✓																									
		Flexible In/Out 1	0 N	6							✓	✓	✓	< <																								
		Digital In/Out 9		4		✓	✓		✓		✓	✓		✓						✓	✓		✓	✓														
		Digital Out 8		12																✓	✓		✓	✓	✓													
	DS6201 Digital I/O Board	Digital In/Out 3	o N	96		√			✓											√			√															
	DS6202 Digital I/O Board ²⁾	Digital In/Out 5	No	32		✓	✓	✓	✓		✓							✓		✓	✓		✓	✓		✓		✓	~			,	✓					✓
	DS6221 A/D Board	Analog In 6	9	16		✓				✓																												
		Trigger In 1	Z	8			✓																															
	DS6241 D/A Board	Analog Out 10	o N	20															✓								✓		√			✓						
Cha		Trigger In 2		4			✓																															
	DS2655 FPGA Base Board DS6601 FPGA Base Board DS6602 FPGA Base Board ≥				DS2655M1 I/O Module: 5 A/D channels, 5 D/A channels, 10 digital I/O channels DS2655M2 I/O Module: 32 digital I/O channels (RS232 or RS485 communication) DS6651 Multi-I/O Module: 6 A/D channels, 6 D/A channels, 16 digital I/O channels																																	
	DS2601 Signal Measurement Board	Flexible In 1	Yes	10	✓	✓ ✓	/	✓	✓	✓ ✓					✓	✓ ✓	✓	√																				
	DS2621 Signal Generation Board	Flexible Out 1	Yes	10															✓ ✓	✓	✓	✓ v	/ /		√	✓	✓	✓	✓ ✓	· ✓	✓	√ ,	✓ ✓	✓	✓	✓		✓
	DS2642 FIU & Power S		10	Power Sw	itch, Cei	ntral FIL	J																															
	DS2680 I/O Unit	Analog In 1		20		✓				✓						√	✓																					
		Analog In 2		2		✓																															✓	
		Digital In 1		30		✓	✓	✓	✓									✓																				
		Flexible In 2		18	✓ ✓	✓	✓	✓	✓	✓					✓	✓	✓	✓																				
		Analog Out 1	Yes	15															✓								✓		√			✓			√			
		Analog Out 2		2															✓													✓					✓	
		Analog Out 3		7																							√		√			√			√	√		
		Analog Out 4		8															✓ ✓						√		√		√	√	√	\checkmark	√		√			
		Digital Out 1		28																√	√		√ /			√		√	✓			,	V	√				√
		Resistance Out 1		12	Power Swi	itch Car	ntral FII															√ ,																
	DS2690 Digital	Digital In 2		6 10	rower SWI	itch, Cer)	✓																													
	I/O Board	Digital III 2 Digital Out 2	Yes	10																√			√															
		Digital In/Out 1	>	10		✓	,		✓											✓			✓															
		3																																				

1) Extension for using extended signal analysis. Additional channels are required. 2) The number of function instances is limited for selected functions. 3) Several channel types are required for this function.

Buses and Networks Bus Overview Failure Insertion Unit integrated Ethernet Adapter 1 SCALEXIO Processing Unit UART 5 Ethernet Adapter 1 DS6001 Processor Board UART 6 DS6301 CAN/LIN Board CAN 2 LIN 2 9 4 DS6311 FlexRay Board FlexRay 2 9 4 \checkmark \checkmark \checkmark DS6321 UART Board UART 1 DS6331-PE Ethernet Ethernet Adapter 1 N0 Board DS6333-CS Automotive Ethernet Adapter 2 **Ethernet Board** DS6333-PE Automotive Ethernet Adapter 2 ✓ ✓ ✓ ✓ ✓ **Ethernet Board** DS6334-PE Ethernet Ethernet Adapter 1 ≥ 4 ✓ ✓ Board DS6335-CS Ethernet Ethernet Adapter 2 SCALEXIO Processing <u>2</u> 1 Ethernet Adapter 1 DS6336-CS Ethernet ≥ 2 Ethernet Adapter 1 Board DS6336-PE Ethernet Ethernet Adapter 1 ≥ CAN 2 DS6341 CAN Board N_o CAN 2 DS6342 CAN Board No LIN 2 8 DS6351 LIN Board Bus 1 DS2671 Bus Board CAN 1 2 DS2672 Bus Module (Add-on for DS2680) LIN 1 FlexRay 1

SCALEXIO Aerospace Solutions

- SCALEXIO Interface Solution for ARINC 429
- SCALEXIO Interface Solution for ARINC 664 and AFDX®
- (AFDX® is a registered trademark of AIRBUS) ■ SCALEXIO Interface Solution for MIL-STD-1553

Additional SCALEXIO Solutions

- SCALEXIO Fieldbus Solution for PROFIBUS and EtherCAT
- SCALEXIO Serial Interface Solution for Serial Peripheral Interface (SPI) and Inter-Integrated Circuit (I²C)
- SCALEXIO EMH Solution for Electric Drives Simulation
- SCALEXIO TWINsync Solution



