

Type of Signal	Signal	Module	Channels	Special Features	Chassis		
					WLAN-/ Ethernet-1-Slot WLS-/ENET-9163	USB-1-Slot-Chassis USB-9162	CompactDAQ (USB, Ethernet) cDAQ-9174/9178/9188
Analog	Small voltage (± 80 mV)	9205	32	16-bit, ± 200 mV to ± 10 V, 250 kS/s, 32 SE or 16 DIFF channels, isolation	✓		✓
		9219	4	24-bit, 100S/s, Ch-Ch Isolated Universal AI Module (± 125 mV to ± 60 V, ± 25 mA, TC, 3 and 4-wire RTD, $\frac{1}{4}$, $\frac{1}{2}$, and Full-Bridge),	✓	✓	✓
	Medium voltage (± 10 V)	9201	8	12-bit, 500 kS/s, single-ended, isolation		✓	✓
		9205	32	16-bit, ± 200 mV to ± 10 V, 250 kS/s, 32 SE or 16 DIFF channels, isolation	✓		✓
		9215	4	16-bit, 100 kS/s per ch, simultaneous, differential	✓	✓	✓
		9219	4	24-bit, 100S/s, Ch-Ch Isolated Universal AI Module (± 125 mV to ± 60 V, ± 25 mA, TC, 3 and 4-wire RTD, $\frac{1}{4}$, $\frac{1}{2}$, and Full-Bridge)	✓	✓	✓
		9239	4	24-bit, ± 10 V, 50 kS/s, simultaneous, anti-aliasing, 250 Vrms ch-ch I isolation		✓	✓
		9207	16	8 current inputs (± 21.5 mA) and 8 voltage (± 10 V), 500S/s (high speed mode)			✓
	Medium voltage (± 10 V) with high isolation	9206	16	16-bit, ± 200 mV to ± 10 V, 250 kS/s, 600 VDC (US)/400 VDC (EU) Cat I bank isolation	✓		✓
		9219	4	24-bit, 100S/s/ch, Ch-Ch Isolated Universal AI Module (± 125 mV to ± 60 V, ± 25 mA, TC, 3 and 4-wire RTD, $\frac{1}{4}$, $\frac{1}{2}$, and Full-Bridge)	✓	✓	✓
		9239	4	24-bit, ± 10 V, 50 kS/s, simultaneous, anti-aliasing, 250 Vrms ch-ch isolation		✓	✓

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					WLAN-/ Ethernet-1-Slot WLS-/ENET-9163	USB-1-Slot-Chassis USB-9162	CompactDAQ (USB, Ethernet) cDAQ-9174/9178/9188
Analog	High voltage (± 60 V, 300 Vrms)	9219	4	24-bit, 100S/s/ch, Ch-Ch Isolated Universal AI Module (± 125 mV to ± 60 V, ± 25 mA, TC, 3 and 4-wire RTD, $\frac{1}{4}$, $\frac{1}{2}$, and Full-Bridge)	✓	✓	✓
		9221	8	12-bit, 800 kS/s, single-ended, isolation,		✓	✓
		9225	3	300 Vrms Analog Input Module			✓
		9229	4	24-bit, ± 60 V, 50 kS/s, simultaneous, anti-aliasing, 250 Vrms ch-ch I isolation		✓	✓
	Current Input	9203	8	8-Ch ± 20 mA, 200 kS/s, 16-Bit, Analog Current Input Module			✓
		9207	16	8 current inputs (± 21.5 mA) and 8 voltage (± 10 V), 500S/s (high speed mode)			✓
		9208	16	16 current inputs (± 21.5 mA), 500S/s (high speed mode)			✓
		9227	4	5 A _{eff} , 24 bit, Analog Current Input			✓
	Thermo-couple	9211	4	24-bit delta-sigma, 15 S/s, differential	✓	✓	✓
		9213	16	24-bit delta-sigma, 75 S/s, differential	✓	✓	✓
		9219	4	24-bit, 100S/s, Ch-Ch Isolated Universal AI Module (± 125 mV to ± 60 V, ± 25 mA, TC, 3 and 4-wire RTD, $\frac{1}{4}$, $\frac{1}{2}$, and Full-Bridge)	✓	✓	✓
	RTD	9217	4	24-Bit, 400 S/s, 0 to 400 Ω RTD support, 3 & 4-wire measurements			✓
		9219	4	24-bit, 100S/s, Ch-Ch Isolated Universal AI Module (± 125 mV to ± 60 V, ± 25 mA, TC, 3 and 4-wire RTD, $\frac{1}{4}$, $\frac{1}{2}$, and Full-Bridge)	✓	✓	✓

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Analog	IEPE Sensors (Accel/ Microphone)	9233	4	24-bit, 50 kS/s, simultaneous, IEPE conditioning(always on), built-in anti-aliasing		✓	✓
		9234	4	24-bit, 50 kS/s, simultaneous, Software- Selectable IEPE conditioning, built-in anti-aliasing	✓	✓	✓
	[Beschleunigungssensor]						
	Bridge-Based Sensors (Strain Gauges/Load Cells)	9219	4	24-bit, 100S/s, Ch-Ch Isolated Universal AI Module (± 125 mV to ± 60 V, ± 25 mA, TC, 3 and 4-wire RTD, $\frac{1}{4}$, $\frac{1}{2}$, and Full-Bridge)	✓	✓	✓
		9235	8	24-bit, 10 kS/s/ch, 120 Ω			✓
		9236	8	24-bit, 10 kS/s/ch, 350 Ω			✓
		9237	4	24-bit, 50 kS/s, simultaneous, full/half-bridge support, anti-aliasing	✓	✓	✓
	[Viertelbrücken]	9237 (DSUB)	4	24-bit, 50 kS/s, simultaneous, full/half-bridge support, anti-aliasing			✓
	Analog Output	9263	4	Medium voltage (± 10 V)		✓	✓
		9264	16	Medium voltage (± 10 V), 25 kS/s/ch		✓	✓
		9265	4	Medium Current (0 - 20 mA)		✓	✓
		9269	4	Medium voltage (± 10 V), 100kS/s/Ch simultaneous			✓

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Digital I/O	Digital Input	9401	8	Bidirectional 5 V TTL			✓
		9402	4	Bidirectional 5 V TTL			✓
		9403	32	Bidirectional 5 V TTL			✓
		9421	8	24 V sinking	✓	✓	✓
		9422	8	Bidirectional 24 V			✓
		9423	8	30 V sinking			✓
		9425	32	24 V sinking			✓
		9435	4	250 V AC/DC universal			✓
	9411	6	Differential or TTL			✓	
	Digital Output	9401	8	Bidirectional 5 V TTL			✓
		9402	4	Bidirectional 5 V TTL, 1x Counter/Timer			✓
		9403	32	Bidirectional 5 V TTL			✓
		9472	8	24 V sourcing	✓	✓	✓
		9474	8	5 to 30 V, 1 μ s, Sourcing Digital Output Module			✓
		9475	8	60 V, 1 μ s Sourcing Digital Output Module			✓
		9476	32	24 V, 500 μ s, Sourcing Digital Output Module			✓
9477		32	60 V sinking			✓	
9478	16	50 μ s, 50 V Sinking			✓		
Solid State Relay	Relay Output	9481	4	Form A (SPST)	✓	✓	✓
		9485	8	60 VDC, SSR form A, up to 750 mA per ch, 5 ms set and reset time, ch-to-ch isolation			✓
Counter, Pulse Generation	Counter/Timer (24 V)	9423	8	1 μ s, high-speed, up to 30 V, 35 V protection			✓
		9425	32	7 μ s, up to 30 V (60 V for 8 channels), 60 V protection			✓
		9426	32	7 μ s, 24V Sourcing Digital Input Module			✓
	Counter/Timer (TTL)	9401	8	100 ns, 5 V TTL, ultra high-speed, bidirectional, 30 V protection			✓
		9403	32	300ns, 5 V/TTL, 30 V protection			✓
		9411	6	500 ns, \pm 5 to 24 V, single-ended TTL or differential, regulated 5 V supply output			✓
	Quadrature encoder (diff.I)	9411	2	500 ns, \pm 5 to 24 V, six digital inputs for two encoders (phase A, phase B, and index inputs)			✓

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PWM/ Pulse Generation (24 V)		9472	8	100 μ s, 6 to 30 V logic, 750 mA max per ch, 30 V protection, short-circuit-proof	✓	✓	✓
		9474	8	1 μ s, high-speed, 5 to 30 V logic, 1 A max per ch, 30 V protection, short-circuit-proof			✓
		9475	8	60 V, 1 μ s Sourcing Digital Output Module			✓
		9476	32	500 μ s, 6 to 36 V, 40 V protection, short-circuit-proof			✓
		9477	32	8 μ s, 5 to 60 V, sinking, isolation, up to 20 A per module			✓
	Solenoid/ Program- mable Current Limits	9478	16	16 Ch, 50 μ s, 50 V Sinking Digital Output, Programmable Current Limits			✓
PWM/ Pulse Generat. (TTL)	9401	8	100 ns, 5 V TTL, ultra high-speed, bidirectional, 30 V protection			✓	
Remov- able Storage	Secure Digital Card Module	9802	2	2 slot, up to 4 GB added storage, read/write at 2 MB/S.			
Serial Interface	RS-232	9870	4	Up to 921.6 Kbaud, 64-byte FIFOs per port.			
	RS-485	9871	4	Up to 1.843 Mbaud, 64-byte FIFOs per port.			
Controller Area Network (CAN)	Controller Area Network (CAN)	9852	2	Low-Speed CAN			
		9853	2	High-Speed CAN			
Motion	Motion	9505	1	H-Bridge Motion Drive (Brushed-DC Servo Motor)			
Your Custom I/O Module(s)	Specia- lized I/O	9951	N/A	The 9951 module development kit includes the tools needed to build custom I/O modules for application specific needs.			