

ADwin-Gold III

ADwin-Gold III is the newest **ADwin** real-time system. It provides a powerful performance in a robust metal enclosure at a reasonable price.

ADwin-Gold III offers an extensive range of digital and analog interfaces. It can therefore be used in many areas. The XILINX ZYNQ with 1 GHz clock rate ensures top values in computing power and system response time.

Options provide additional functions as counters, encoder interfaces, serial, CAN bus and SSI interfaces. The system can be used in laboratories, on a DIN-rail in industrial machines, or in mobile and in-vehicle applications.

In conjunction with a notebook and a power supply of 10–35 V, it is not only easy to use for measurements in motor vehicles, but also in industrial environments.

ADwin-Gold III allows immediate and synchronous acquisition and output at the inputs and outputs, even for several Gold III devices in parallel.

Standard equipment

- CPU: XILINX ZYNQ 32 bit, 1 GHz, 1 GB RAM, FPU 64 bit
- 16 analog inputs, 18 bit; 2 analog outputs, 16 bit
- 32 digital inputs/outputs, configurable, TTL with FIFO memory at the digital inputs
- 4 differential digital inputs/outputs
- Trigger input
- LS bus interface

Order options

- Synchronous acquisition of analog values
- 4 or 8 analog outputs, 16 bit
- 9 counter blocks with two 32-bit counters each
- 12 diff. digital inputs, 6 TTL digital channels
6 digital comparator inputs
4 optical digital inputs, 4 transistor outputs
Edge monitoring at digital inputs
Automated level output at digital outputs
- 4 SSI interfaces
- 6 PWM outputs (TTL compatible)
- Interfaces: CAN, RS 232/485, EtherCAT, Profibus, Profinet, Ethernet/IP



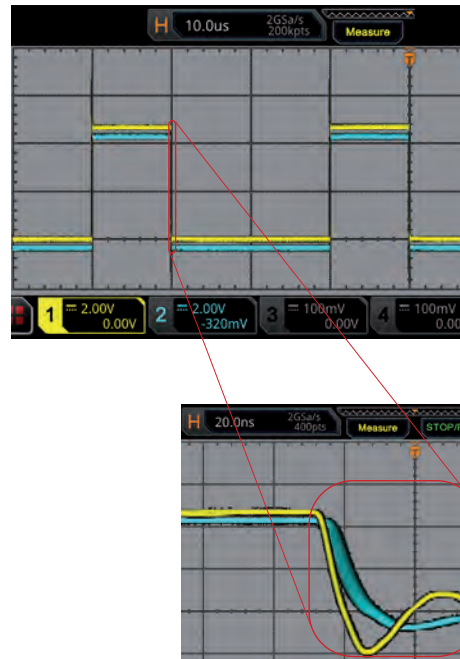
Synchronous Actions, scalable Performance

ADwin-Gold III allows immediate and synchronous acquisition and output at the inputs and outputs, even for several Gold III devices in parallel.

You want highly synchronized actions? Here you are: Send a Sync signal to the differential Sync inputs of one, two or more Gold III devices and see them all react simultaneously. You can even define a master device which triggers all devices in a specific time pattern.

You also benefit from the multiplied ADwin performance, which scales up with each additional devices.

With a simple software instruction, you define the actions of each device which are triggered at the same time: read an analog input, copy counter values, output digital signal patterns and some more.



Two devices, synchronized reaction within nanoseconds

16 Analog In 18 bit, ±10V 2 × 8 channels via MUX 2 ADC PGA 1, 2 optional: synchronized	<h3 style="text-align: center;">ADwin-Gold III</h3> <p style="text-align: center;">CPU XILINX ZYNQ 1000MHz, Real-Time optimized structure, 64-bit Floating Point Unit, 1000MB RAM 1Gbit Ethernet to the PC</p> <p style="text-align: center;">Fast RT-OS</p>	9 Counters TTL / diff. TTL PWM, Pulse Up / down, quadrature	2 CAN 1 RS 232/485
2 Analog Out 16bit, ±10V optional: 4 Analog Out 8 Analog Out		2 SSI, 6 PWM 4 OPT, 4 TRA	1 EtherCAT
32 TTL DIO 4 Diff. DIO 1 Event In	64+ DIO 24V 30 × 32 channels max. via LS bus	1 PROFIBUS	
	Bootloader	1 PROFINET	
		1 Ethernet/IP	
Standard		Optional	

Test bench development

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