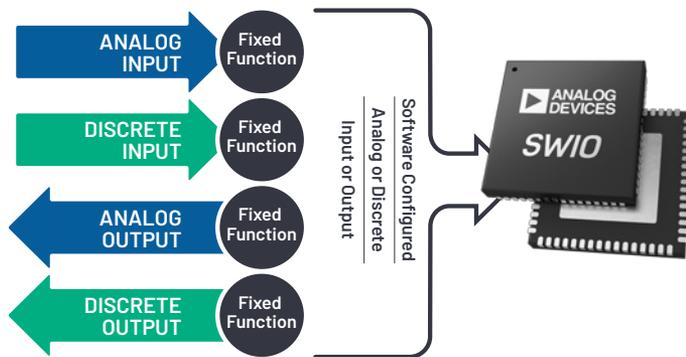


Software Configurable Systems

Build Once—Adapt Often

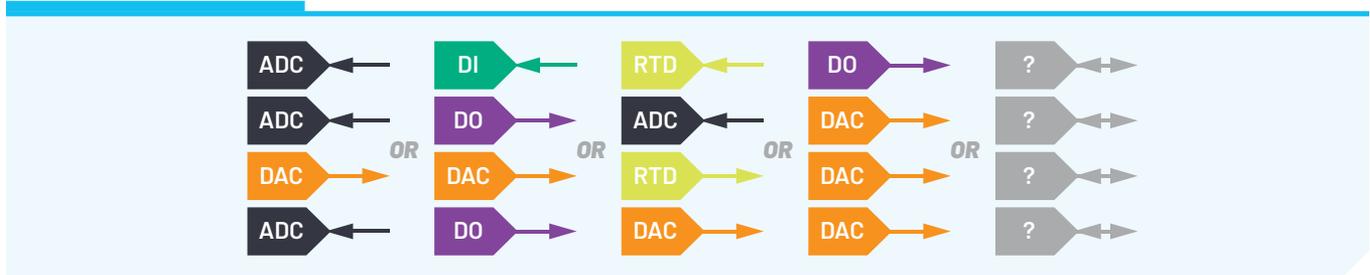


Software configurable systems are enabling industrial OEMs to deliver unprecedented levels of flexibility to the factory floor while simultaneously reducing their own product complexity. New software configurable input/output (SWIO) capabilities allow any industrial I/O function to be accessed on any pin, allowing channels to be configured at any time. This means customization can happen right at the time of installation—resulting in faster time to market, fewer design resources, and universal products that can be implemented broadly across projects and customers.



- Ease of use/ easier design
- Faster TTM
- Universal, reusable products
- Enables the transition to T1L
- Reduced maintenance costs and time

Any Function, Any Pin



How SWIO Makes a Difference

Before Software Configurable I/O

Customer purchases, uses, and stores many modules.

After Software Configurable I/O

Customer purchases, uses, and stores a single module type—saving on R&D, production, logistics, and storage.

Industrial Ethernet Use Case

SWIO eases end customers' transition to smart, edge connected devices. This enables a managed transition to T1L, Ethernet, and other industrial communications standards by facilitating the continued use of field instruments while transitioning the factory to a connected infrastructure.

Software Configurable I/O Products

	I/O Channel Count	Input/Output Types	Features
AD74412R	4	Analog out, analog in, digital in	Internal reference, internal temperature sensor
AD74413R	4	Analog out, analog in, digital in	Internal reference, internal temperature sensor, HART [®] impedance and ramp modes

Software Configurable Outputs

	Channel Count	Resolution	Output Type	Features
AD5758	1	16 bits	Current out, voltage out	New and improved dynamic power control, HART connectivity
AD5755/AD5755-1	4	16 bits	Current out, voltage out	Dynamic power control, HART connectivity

Software Configurable Inputs

	Channel Count	Resolution	Input Type	Data Out Interface
AD4110-1	1	24 bits	Differential, single ended	Serial

Isolated Micropower Management Unit

	Isolated Power Rails	High Speed SPI Isolation Channels	General-Purpose Isolated Data Channels
ADP1031	3	4	3



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