



New Product Announcement

API782x

Dual-Channel Digital Isolators Deliver Robust and Reliable Isolation Solutions for Digital Signals

The API782x series from the RobustISO™ family delivers high-performance dual-channel digital isolation with a 5,700 V_{RMS} UL 1577 rating in the SO-16WW package.

The devices meet reinforced isolation requirements in accordance with VDE, UL, and CQC standards.

Supporting data rates up to 100Mbps, the API782x family is offered in multiple digital channel-direction configurations and default output states, with all variants operating across a wide 2.5V to 5.5V supply range.

Designed for demanding industrial environments, the devices offer strong electromagnetic immunity, low emissions, and low power consumption.

The family provides a minimum common-mode transient immunity of 150kV/μs. The API7820 device features two channels in the same direction, while the API7821 provides one channel in each direction. Devices with an F-suffix default low on the output, and devices without the F-suffix default high.

All API782x devices are offered in the wide-body SO-16WW package.

**According to DIODES isolation reliability calculations.*

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The DIODES Advantage

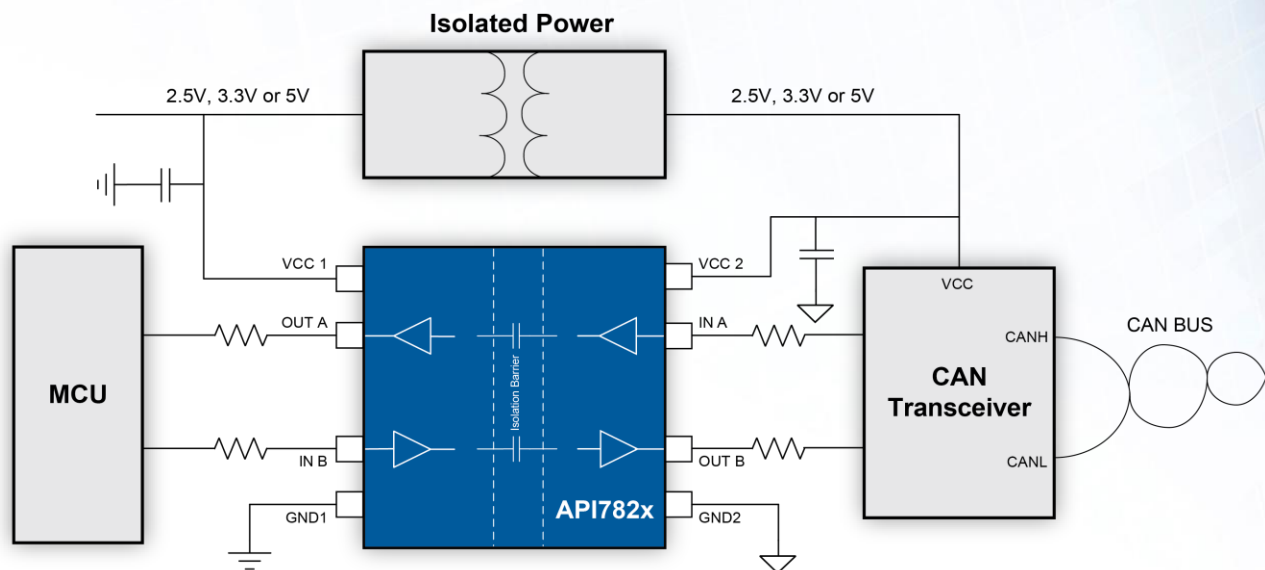
The API782x provides reliable and robust isolation solutions for digital signals in critical applications.

- **Up to 100Mbps Signal Speed**
Provides a digital signal isolation solution covering various transmission protocols
- **High Minimum Common Mode Immunity >150kV/μs**
Strong anti-interference ability enabling reliable signal transmission
- **Multiple Channel-Direction and Default-Output Options**
Provides the flexibility required to support a wide range of digital-signal transmission applications
- **Safety-Related Certifications Planned**
Processing for UL 1577 (E550819), VDE V0884-17, and CQC GB4943.1 (in progress)
- **Over 40 Years of Predicted Isolation Barrier Lifetime***
Exceeds the standard service life of strict condition scenarios

Applications

- Solar inverters
- Industrial automation
- Motor controls
- Grid and electricity meters

Typical Application



Digital Isolator Product Portfolio Snapshot

Part Number	Channels	Voltage - Isolation	V _{CC}	Max. Data Rate	CMTI	Package
		V	V	Mbps	kV/μs	
API782x	2	5,700	2.5 to 5.5	100	>150	SO-16WW (Type CJ)
API772x	2	5,000	2.5 to 5.5	100	>150	SO-8W (Type CJ)

Ordering Information

Orderable Part Number	Compliance (Only Automotive Supports PPAP)	Input-Side Transmit/Receiver	Default Output	Package	Moisture Sensitivity	Packing	
						Quantity	Carrier
API7820S16C-13	Standard	2/0	High	SO-16WW (Type CJ)	MSL-3	1,000	13" Tape & Reel
API7821S16C-13	Standard	1/1	High	SO-16WW (Type CJ)	MSL-3	1,000	13" Tape & Reel
API7820FS16C-13	Standard	2/0	Low	SO-16WW (Type CJ)	MSL-3	1,000	13" Tape & Reel
API7821FS16C-13	Standard	1/1	Low	SO-16WW (Type CJ)	MSL-3	1,000	13" Tape & Reel