



New Product Announcement

API772x

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

The API772x RobustISO™ family consists of high-performance, dual-channel, digital isolators, boasting 5,000V_{RMS} isolation ratings per UL 1577.

Their insulation level fulfills the reinforced isolation requirements for VDE, UL, and CQC.

The API772x family's data rates are up to 100Mbps, and are available in multiple digital channel direction configurations and default output levels. The devices have a wide operating supply voltage of 2.5V to 5.5V.

These parts provide strong electromagnetic immunity and benefit from low emissions at a low-power consumption level. The family has a minimum of 150kV/μs common-mode transient immunity (CMTI).

The API7720 has both its channels in the same direction, while the API7721/API7722 have a channel in each direction.

The default output is low for devices with an F-suffix and high for devices without the F-suffix.

The API772x is available in the wide-body SO-8W package.

**According to Diodes' isolation reliability calculations.*

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The DIODES Advantage

The API772x family provides a reliable and robust isolation solution for digital signals in critical applications.

- **Up to 100Mbps Signal Speed**
Provides a digital signal isolation solution that covers various transmission protocols
- **High Minimum Common Mode Immunity of >150kV/μs**
Offers a strong anti-interference ability enabling reliable signal transmission
- **Multiple Options for Channel Direction and Default Output**
Supports various scenarios for digital-signal transmission applications
- **Safety-Related Certifications**
UL 1577 (E550819) certified; DIN EN IEC 60747-17 (VDE 0884-17) and CQC GB 4943.1 in progress
- **Over 40 Years of Predicted Isolation Barrier Lifetime***
Exceeds the standard service life of scenarios with strict conditions

Applications

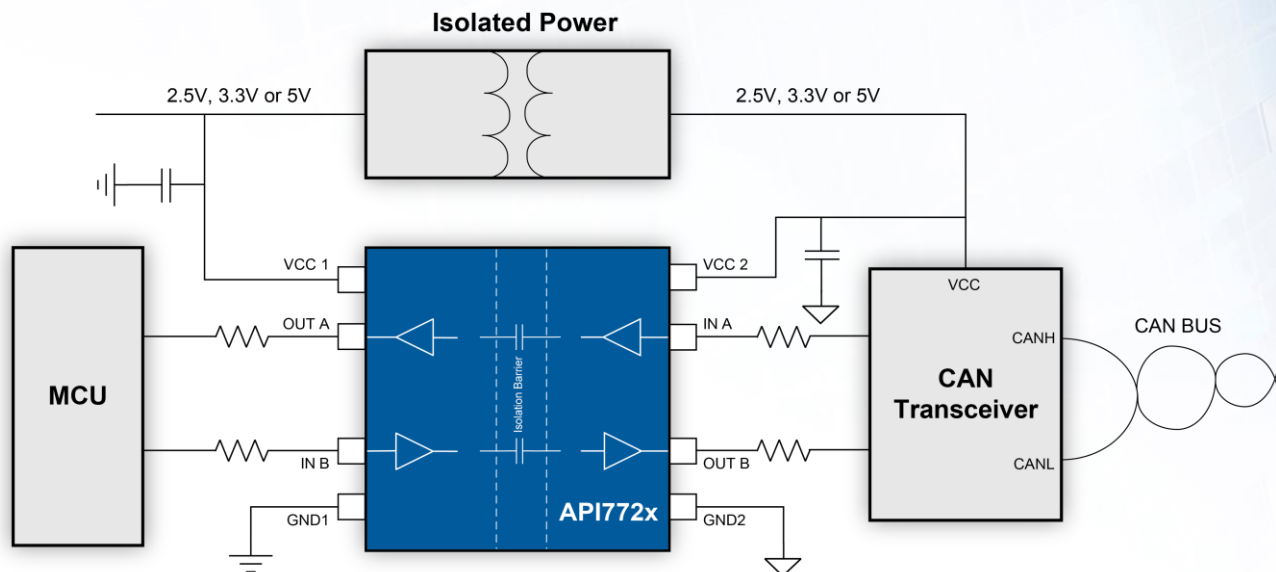
- Data center power supplies
- Industrial automation
- New energy power systems



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Typical Application



Digital Isolator Product Portfolio

Part Number	Channels	Isolation Voltage	V _{CC}	Max. Data Rate	CMTI	Package
		V	V	Mbps	kV/μs	
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)	Forward/ Reverse Channels	Default Output	Package	Moisture Sensitivity	Packing	
						Quantity	Carrier
API7720SB-13	Standard	2/0	High	SO-8W (Type CJ)	MSL-3	1,000	13" Tape & Reel
API7721SB-13	Standard	1/1	High	SO-8W (Type CJ)	MSL-3	1,000	13" Tape & Reel
API7722SB-13	Standard	1/1	High	SO-8W (Type CJ)	MSL-3	1,000	13" Tape & Reel
API7720FSB-13	Standard	2/0	Low	SO-8W (Type CJ)	MSL-3	1,000	13" Tape & Reel
API7721FSB-13	Standard	1/1	Low	SO-8W (Type CJ)	MSL-3	1,000	13" Tape & Reel
API7722FSB-13	Standard	1/1	Low	SO-8W (Type CJ)	MSL-3	1,000	13" Tape & Reel