



Brief Description

A²SI-Lite is a CMOS integrated circuit for AS-I (Actuator Sensor Interface) networks. The AS-I low-level field bus was designed for easy, safe and cost-effective interconnection of sensors, actuators and switches. It transports both power and data over the same two-wire unshielded cable. A²SI-Lite works in bus nodes as interfaces between the application and the physical layer (cable). The devices realize power supply, physical data transfer and communication protocol handling. It provides extended address mode, which allows the interconnection of up to 62 slave modules. The low-cost A²SI-Lite can be used in slave units. Certified to AS-I specification V3.0 the device is perfect for interconnecting simple switches and LEDs.

Features

- Slave operation only
- Certified to AS-I specification V3.0
- 2I/2O data port
- PWM output option
- 2 diagnostic pins (A2SI-L16 only)
- Operation temperature -25 to +85°C
- Package SOP14 (A2SI-L14) / SOP16 (A2SI-L16)

Benefits

- Suitable for Low-End-Devices, for instance pushbuttons and pilot-lights
- Very small package SOP 14 and SOP 16

Available Support

- ZMDI AS-Interface Programmer Kit USB

Physical Characteristics

- Operational temperature range: -25 to +85°C
- SOP14 A2SI-L14 package
- SOP16 A2SI-L16 package

A2SI-Lite Basic Application Circuit

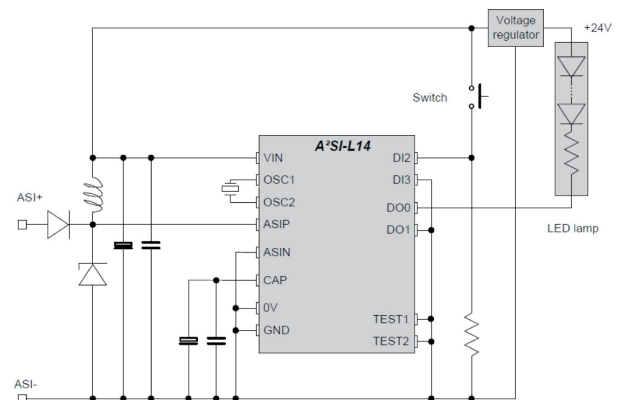


Figure 9-1: Typical application I.

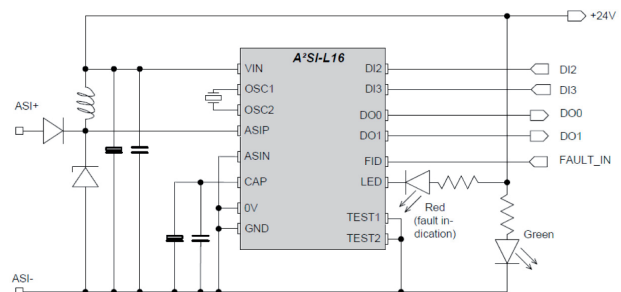


Figure 9-2: Typical application II

A²SI-Lite

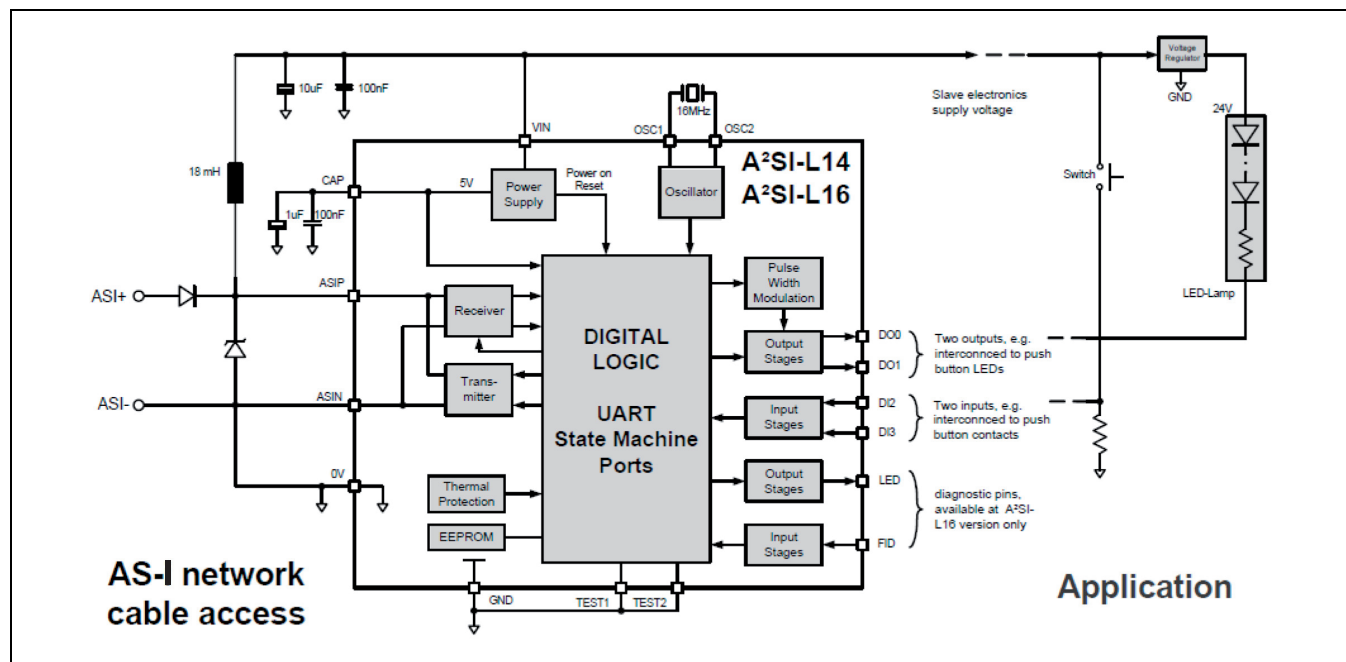
Low-cost AS-Interface IC



ZMDI

The Analog Mixed Signal Company

A²SI Block Diagram



Ordering Information

Ordering Code	Product Description	Packaging
A2SI-L14-ST	A2SI-Lite 14 pin SOP, 150 mils package (without diagnostic pins)	Tube
A2SI-L14-SR		Tape & Reel
A2SI-L16-ST	A2SI-Lite 16 pin SOP, 150 mils package (with diagnostic pins)	Tube
A2SI-L16-SR		Tape & Reel

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