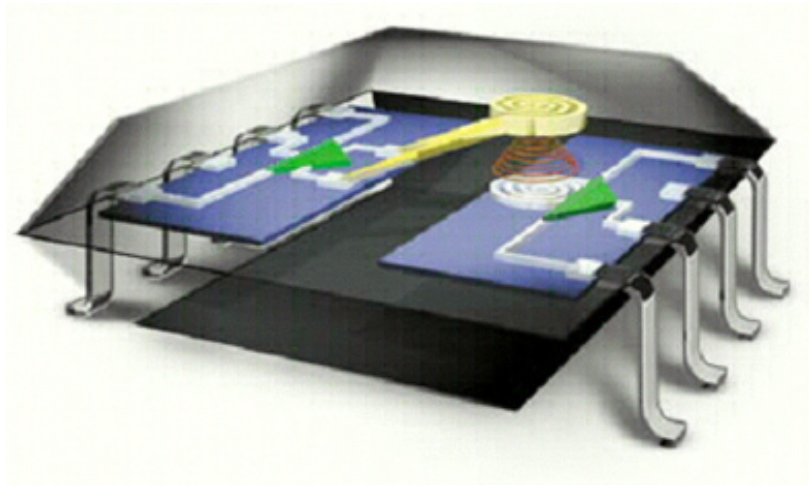




Изоляторы цифрового сигнала **iCoupler[®]**

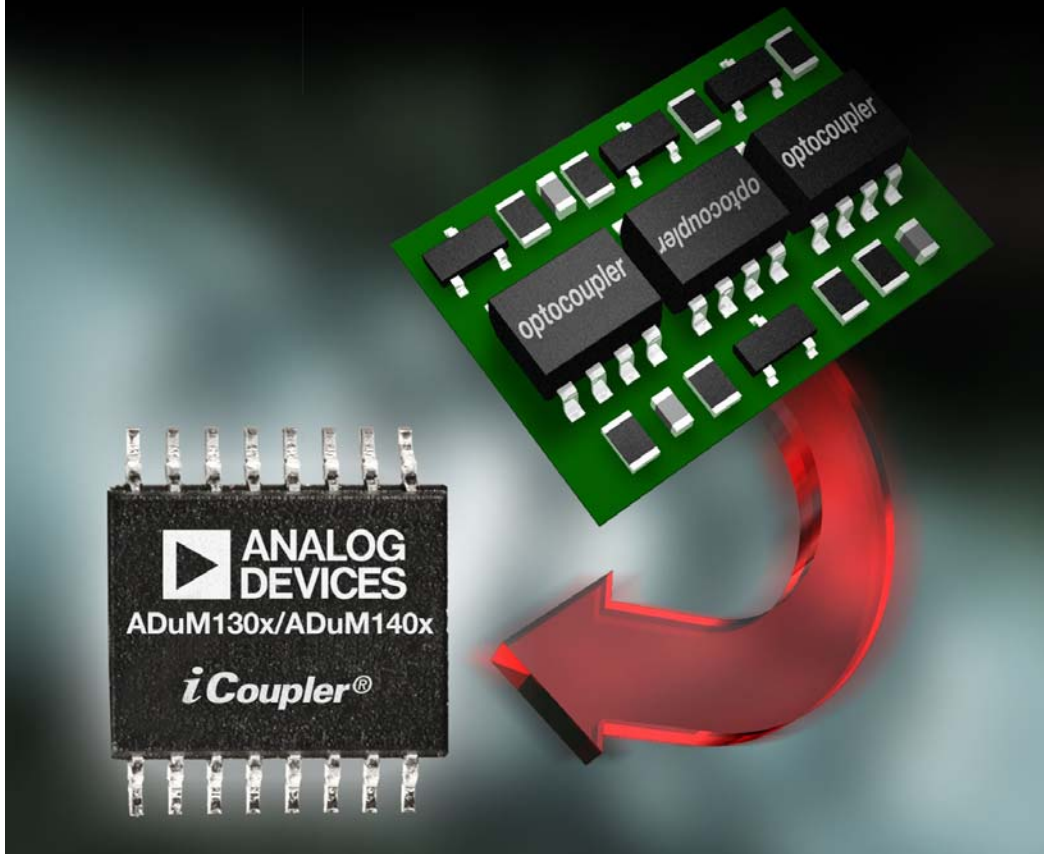
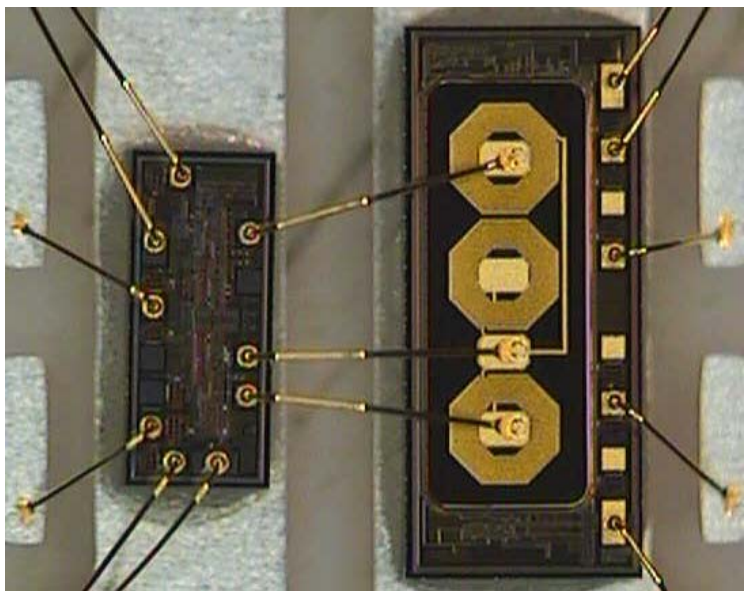


*Минск,
Май 2006*

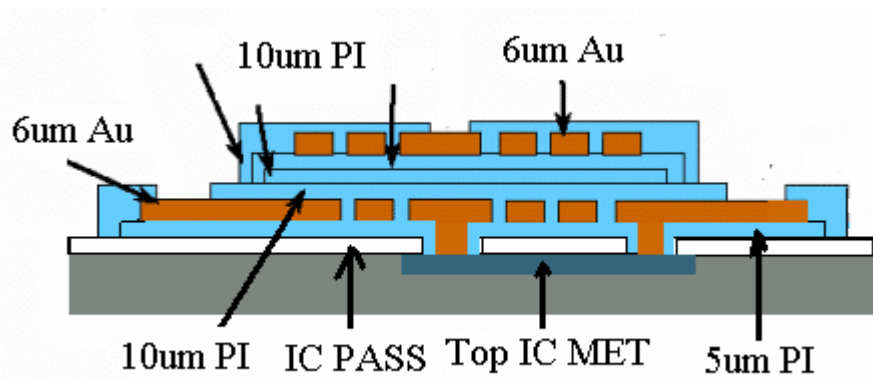
*i*Coupler преодолевает ограничения, присущие оптопарам

- ◆ *Integration*
- ◆ *Performance*
- ◆ *Power Consumption*
- ◆ *Ease-of-Use*
- ◆ *Reliability*

- ◆ Magnetic Rather Than Optical Coupling
- ◆ >10x Performance and Power Improvements
- ◆ Chip-Scale Transformers → Low-Cost Integration



MEGIC Process Options for *isoPower*TM: Same Process For Both The Power Coils and Data Coils

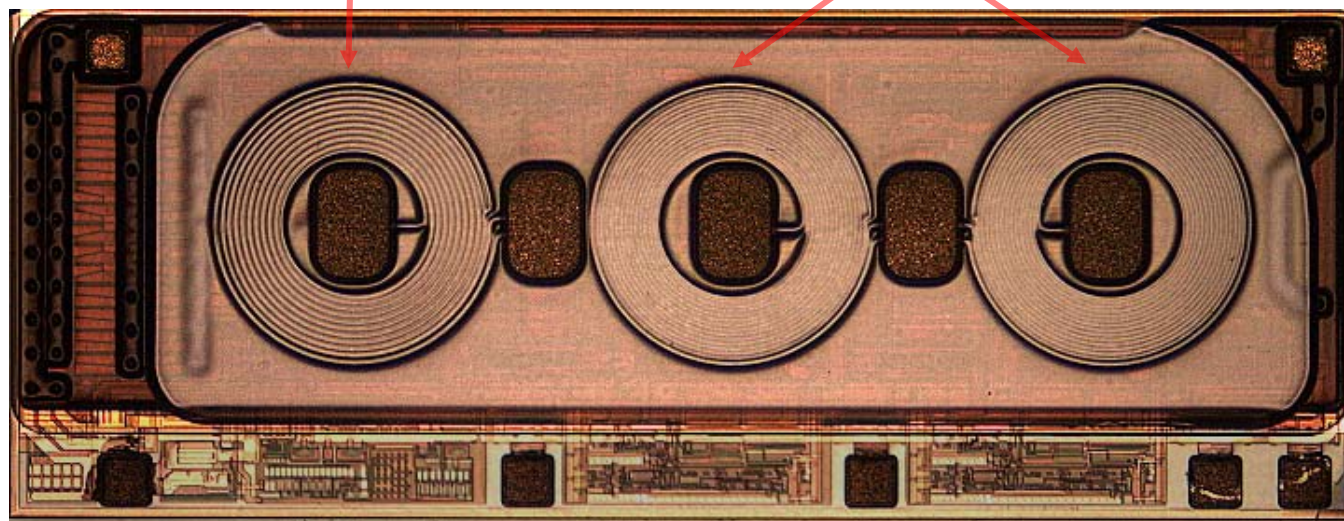


20 μm Polyimide Provides up to 5kV Isolation!

Power Coil

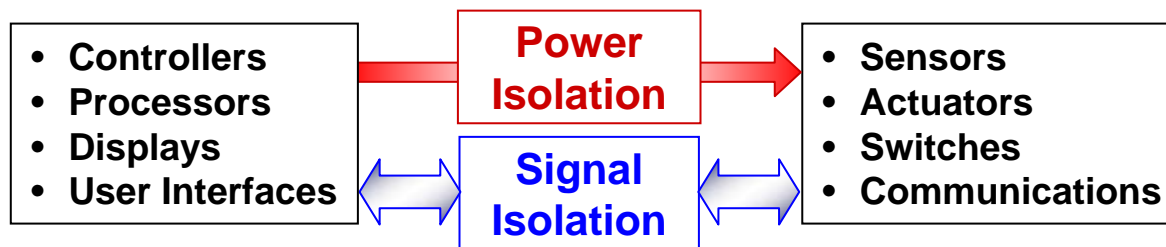
Data Coils

ADuM524x Transformer
Chip Die Photo





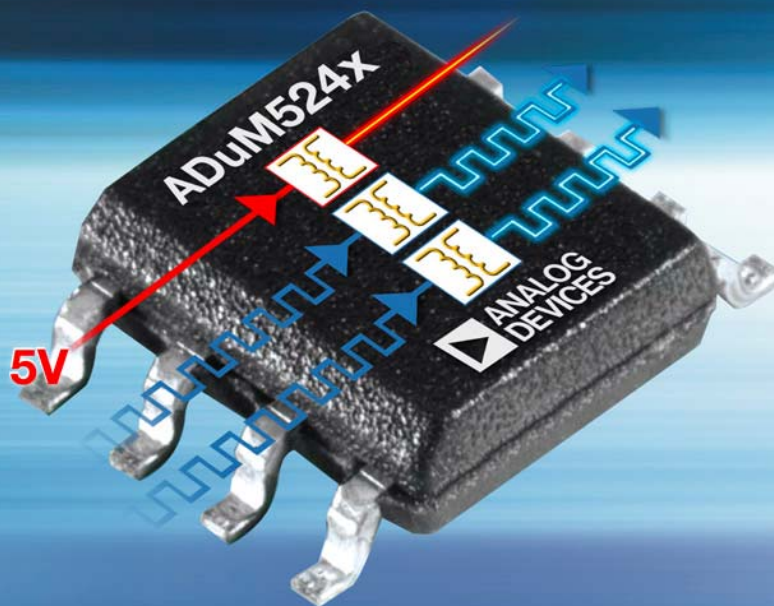
Одна из важнейших проблем: Как изолировать линию питания?



- ◆ **Until today, power isolation required discrete solutions**
 - Large
 - Costly
 - Incremental design time
- ◆ ***i*Coupler technology offers a breakthrough alternative:**
 - One package with integrated signal and power isolation

Introducing the ADuM524x

Data And Power Isolation In One Package



- *iCoupler*® technology in 8-lead SOIC package
- 80% smaller and 60% less expensive than optocoupler-plus-DC/DC solutions

First Products with *isoPower* Variations on Signal Directionality for Specific Applications

◆ ADuM5240

- 2 isolated outputs with isolated power
- General purpose isolation

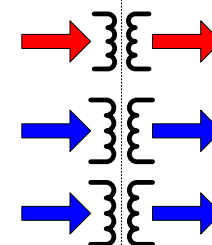
◆ ADuM5241

- 1 isolated output and input with isolated power
- Ideal for bi-directional communications such as RS-232 requiring isolated power for interface electronics

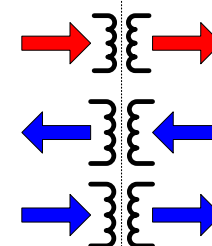
◆ ADuM5242

- 2 isolated inputs with isolated power
- Ideal for power supplies with secondary side control requiring power to initiate start-up

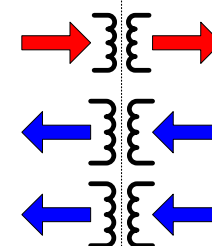
ADuM5240



ADuM5241



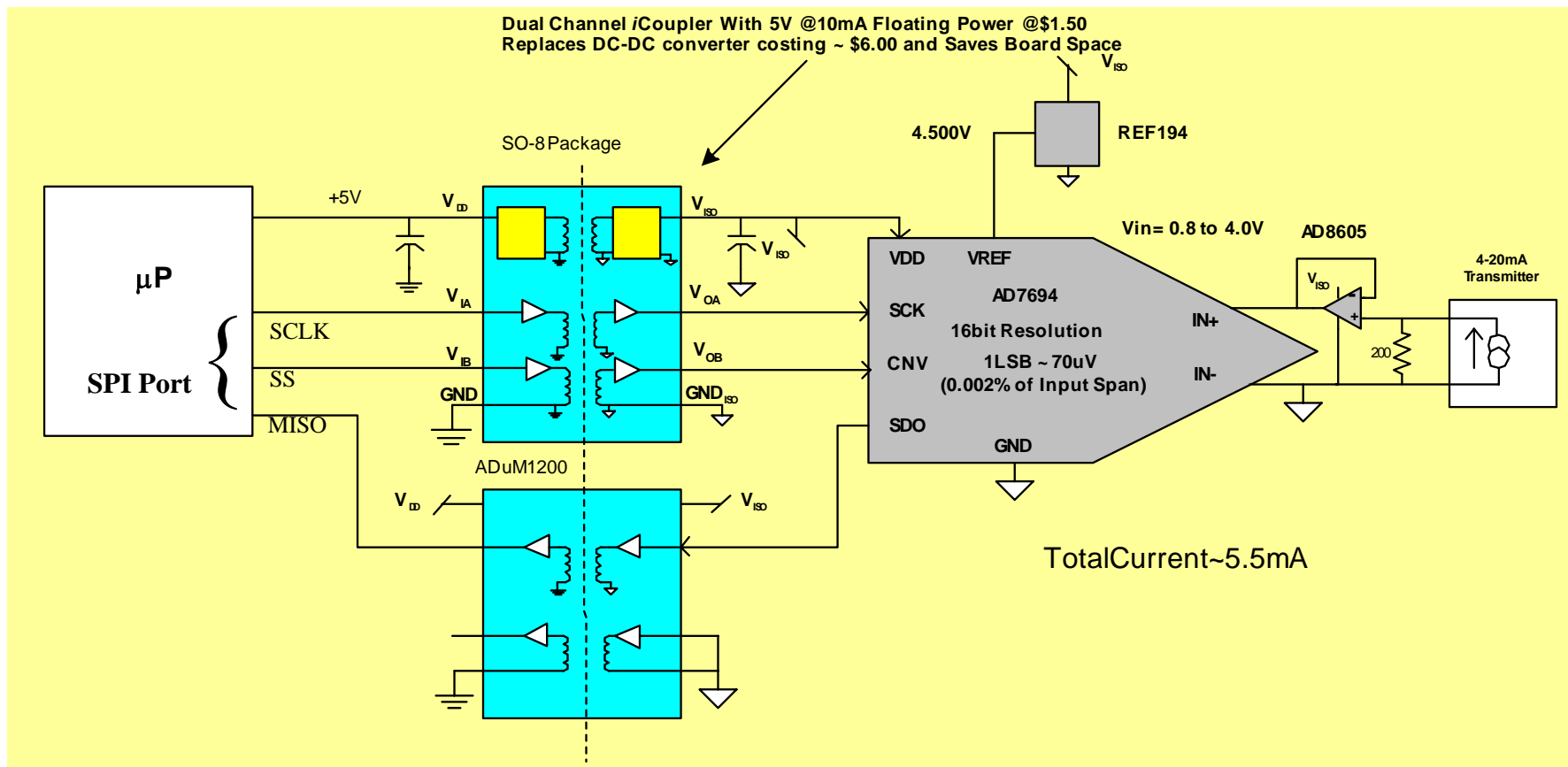
ADuM5242



Isolated 4-20mA Input

- ◆ Board Space Reduced by ~70%
- ◆ Channel Cost Reduced by ~35%

isoPower

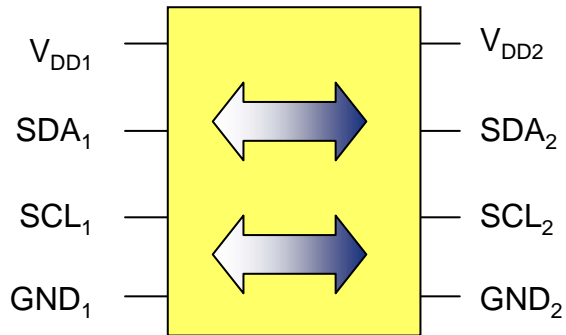




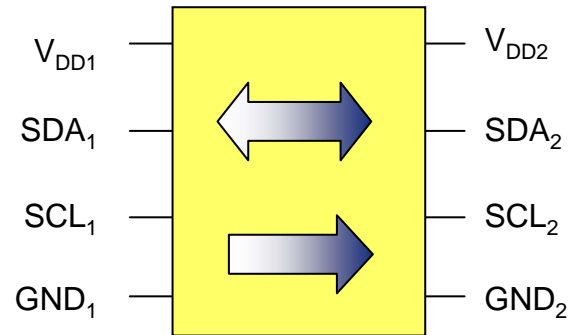
Изоляторы для линии I2C

ADuM1250/1251 are Isolator for Bi-directional I2C Interfaces

ADuM1250



ADuM1251

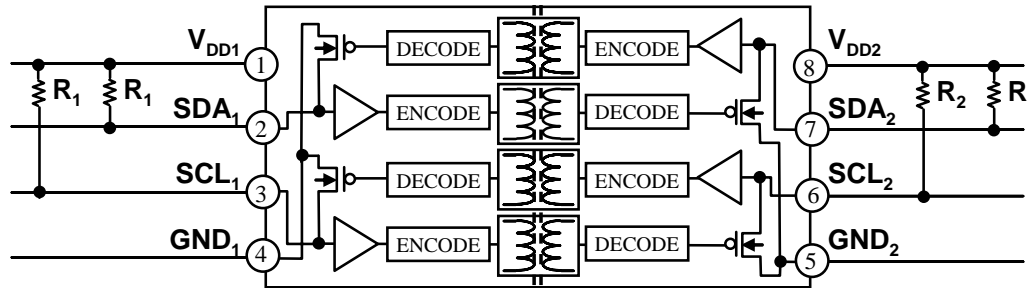


8-lead SOIC

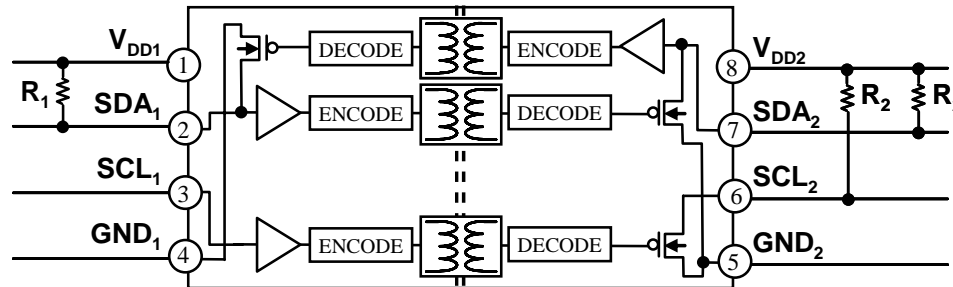
Sampling May 2006!

Product Concept

ADuM1250



ADuM1251



- ◆ Key Features
- ◆ Bi-Directional Communication Up to 400KHz
- ◆ 30 mA Current Sink Capability
- ◆ Hot-Swap Inputs
- ◆ Small Size: 8-Lead SOIC Package

iCoupler Product Portfolio

