Card Bus Controller for Notebook Computers and PDAs. BU6836

The BU6836 is a 1-chip card bus controller designed for notebook computers and PDAs (personal digital assistants). The BU6836 supports two types of CardBus slots: 32-bit CardBus cards and 16-bit PC cards (PCMCIA). Because it can operate at 3.3V, the BU6836 reduces power consumption and prolongs battery life.

Applications

Notebook computers and PDAs

Features

- 1) 2 internal interface slots for PCMCIA 2.1/JEIDA 4.2 R2 cards and CardBus cards.
- 2) 3 types of ZV port interface (including the 2 card slots), and an internal multiplexer that outputs to a dedicated ZV port.
- 3) Supports Intel 82365SL PC ICs.
- 4) Internal 3V card protection system.
- 5) Supports DMA.
- 6) BGA256/UQFP256 packages.

●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Power supply voltage	Vcc	-0.5~7	٧
Operating temperature range	Topr	0~70	°C
Storage temperature range	Tstg	−55~12 5	င

●Recommended operating conditions (Ta=25℃)

Parameter	Symbol	Min.	Тур.	Max.	Unit
Power supply voltage	Vcc (core)	3.0	3.3	3.6	٧
	VDDA (SKTA)	3.0	3.3	5.5	٧
	VDDB (SKTB)	3.0	3.3	5.5	٧
	VDDP (PGI)	3.0	5.0	5.5	٧
	VDDZ (ZV)	3.0	5.0	5.5	V

Multimedia ICs BU6836

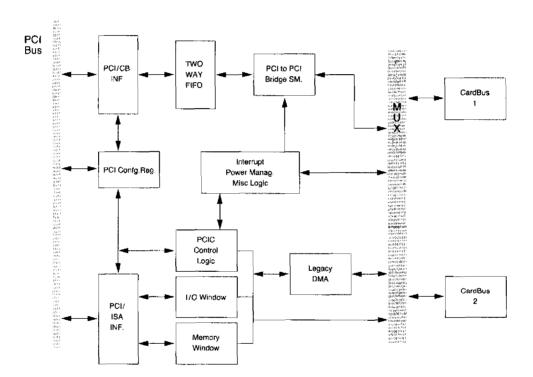
● Electrical characteristics (unless otherwise noted, Ta=25°C, Vcc=3.3V)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Power supply voltage	Vcc (core)	3.0	3.3	3.6	V	Power supply for the internal core logic
Current consumption	Іссэ	_	_	10	mA	

(Unless otherwise noted, Ta=25°C, VDDA, VDDB, VDDP, VDDZ=5.0V)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Power supply voltage	VDDA	3.0	5.0	5.5	٧	Power supply for SOCKET_A
Power supply voltage	VDDB	3.0	5.0	5.5	٧	Power supply for SOCKET_B
Power supply voltage	VDDP	3.0	5.0	5.5	٧	PCI power supply
Power supply voltage	VDDZ	3.0	5.0	5.5	٧	Power supply for zoomed video
Input leak current	lıL5	-10		+10	μA	
Output leak current	lous	-10		+10	μΑ	

Block diagram



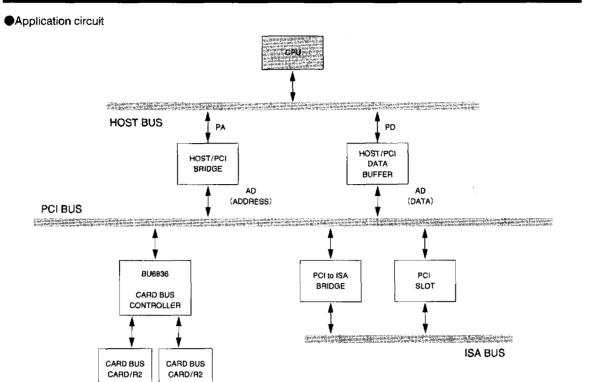
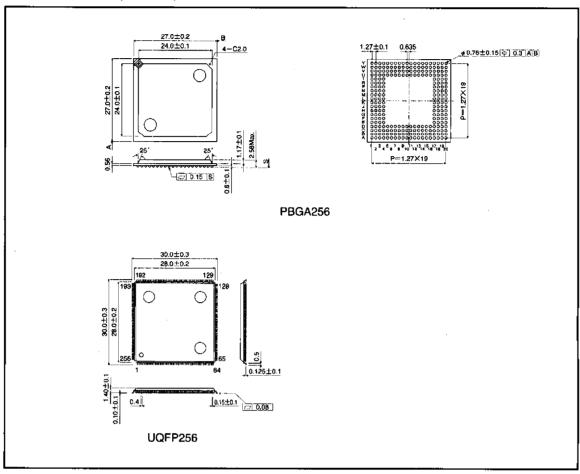


Fig.1





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Notes

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