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

- 2 internal interface slots for PCMCIA 2.1/JEIDA 4.2 R2 cards and CardBus cards.
- 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	V
Operating temperature range	Topr	0~70	င
Storage temperature range	Tstg	−55 ~125	င

■Recommended operating conditions (Ta=25°C)

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

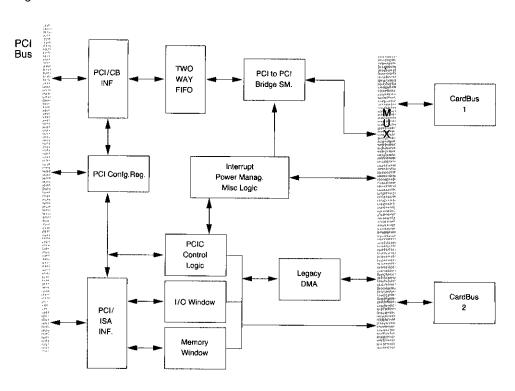
lacktriangle Electrical characteristics (unless otherwise noted, Ta=25°C , Vcc=3.3V)

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	lcca		_	10	mA	

(Unless otherwise noted, Ta=25 $^{\circ}\text{C}$, VDDA, VDDB, VDDP, VDDZ=5.0V)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Power supply voltage	VDDA	3.0	5.0	5.5	V	Power supply for SOCKET_A
Power supply voltage	V _{DDB}	3.0	5.0	5.5	٧	Power supply for SOCKET_B
Power supply voltage	V _{DDP}	3.0	5.0	5.5	V	PCI power supply
Power supply voltage	VDDZ	3.0	5.0	5.5	٧	Power supply for zoomed video
Input leak current	liu.5	-10	_	+10	μΑ	
Output leak current	lous	-10	_	+10	μА	

●Block diagram



Application circuit

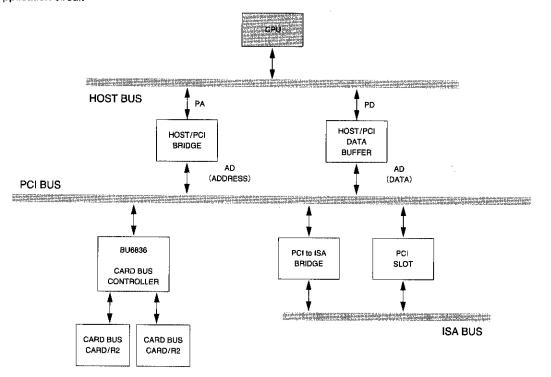
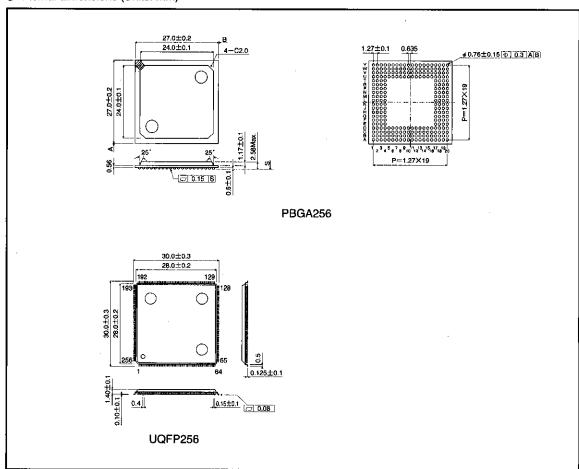


Fig.1

●External dimensions (Units: mm)



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