

Advance Information Supplement

Subject:	Version Change
Data Sheet Concerned:	UAC 355xB 6251-544-1AI, Edition Aug. 2, 2001
Supplement:	No. 1/ 6251-544-1AIS
Edition:	Dec. 18, 2001

UAC 355xB Version D3

1. The UAC 355xB-D3 is hardware compatible to the UAC 355xB-C2. Several prior known problems have been corrected in this version, see problem list for UAC 355xB-C2 on page 2. For known problems of the D3 platform, see below.

Problem List for UAC 355xB-D3:**23.11.01**

No.	Problem	Description	Comment	Status
9	I ² C slave interface	Problem of the I ² C slave interface with long bus turn around time during acknowledge handshake, leads to missing bytes in the I ² C read transfer.	This function is only required for stand-alone (i.e. non USB) applications. Workaround with new firmware under evaluation. Will be released on the workgroups upon availability.	work in progress
10	Suspend current	Suspend current is out of USB specified range (> 500 µA)	Fixed in non ES versions.	work in progress
11	I ² C master communication with vendor specific requests	I ² C communication using vendor specific requests can be faulty under some conditions with OHCI host controllers. This is observed when the E ² prom is programmed via USB	Workaround with new firmware under evaluation. Will be released on the workgroup upon availability.	work in progress
12	Remote Wakeup	Remote wakeup is not functional.	Hardware fix is required	work in progress
13	Suspend/Resume	Suspend/Resume does not work with internal ROM firmware of D3.	Workaround with new firmware under evaluation. Will be released to the workgroup upon availability	work in progress

2. Other differences:

- I²C communication: I²C communication has been changed in UAC 355xB-D3 from an implementation with a vendor specific bulk endpoint to vendor specific requests in endpoint zero (SetI2c/GetI2c). The I²C communication is only required when other I²C devices are controlled by the UAC 355xB, e.g. for programming the external E²prom. If this function is not required only standard class specific USB drivers are required.

UAC 355xB Version C2

Problem List for UAC 355xB-C2:

23.11.01

No.	Problem	Description	Comment	Status
1	DAC noise	DAC scratching noise during audio playback.	Temperature depend, very hard to reproduce.	OK in D3
2	Reset problem	Reset does not work under some powerup conditions. UACB stopped working.		OK in D3
3	Asynchronous I ² S input	Asynchronous I ² S input not functional.		OK in D3
4	Side tone functionality	Adding a side tone to the right Line Input during recording of Microphone does not work.		OK in D3
5	ADC scaling	ADC preamplifier gain out of spec		OK in D3
6	SREF not turned on	When turning on the headphone opamp, the reference generator was not automatically turned on.	High supply current is observed.	OK in D3
7	Drivers required for vendor specific endpoints	Vendor specific bulk endpoint and vendor specific isochronous endpoint drivers are not available.	The endpoints have been removed in the D3 descriptor. There is no requirement for this function, driver development is on hold	OK in D3
8	USB communication	Robustness to erroneous USB communication not good enough.	All known problems have been fixed	D3 Firmware is improved
9	I ² C slave interface	Problem of the I ² C slave interface with long bus turn around time during acknowledge handshake, leads to missing bytes in the I ² C read transfer.	This function is only required for standalone (i.e. non USB) applications. Workaround with new firmware under evaluation. Will be released on the workgroups upon availability.	work in progress
10	Suspend current	Suspend current is out of USB specified range (> 500 µA)	Hardware fix required	improved in D3