TECHNICAL BULLETIN FROM GLOBAL BUSINESSSTEMS

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SMC ARCNET-PC130E now supported

The 8-bit ISA-bus SMC ARCNET-PC130E Arcnet card is now supported by Global System Manager V8.1 (BOS) and Global System Manager V8.1 (MS-DOS and Windows).

SMC ARCNET-PC130E HARDWARE CONFIGURATION

The set of jumpers on the bottom left of the card is used to set up the IRQ level as follows:-

EXT

•	•	2	always leave open
•	•	1	always leave open
•	•	ROM	always leave open
•	•	7	close to select IRQ7
•	•	5	close to select IRQ5
•	•	4	close to select IRQ4
•	•	3	close to select IRQ3
•	•	2	close to select IRQ2

The interrupt level is set by removing all the jumpers except the one required.

Switch bank S1 is used to set up the I/O address and memory address. The first 3 switches in switch bank S1 are mapped to one of the 8 I/O addresses available for the card:-

S1-1	S1-2	S1-3	I/O address
Down	Down	Down	#0260
Down	Down	Up	#0290
Down	Up	Down	#02E0
Down	Up	Up	#02F0
Up	Down	Down	#0300
Up	Down	Up	#0350
Up	Up	Down	#0380
Up	Up	Up	#03E0

Important Note: The default address of #0240 CANNOT be used with the SMC ARCNET-PC130E card. We recommend an address of #02E0.

The next 3 switches in switch bank S1 select the RAM address of a 16Kb block of memory on the card:-

S1-4 address	S1-5	S1-6	Memory
Down	Down	Down	#C0000
Down	Down	Up	#C4000
Down	Up	Down	#CC000
Down	Up	Up	#D0000
Up	Down	Down	#D4000
Up	Down	Up	#D8000
Up	Up	Down	#DC000
Up	Up	Up	#E0000

The last 2 switches in bank S1 (i.e. S1-7 and S1-8) MUST be set to the Down position.

The network ID is set up using switch S2 with S2-1 the least significant bit and S1-8 the most significant bit. A switch in the Up position signifies a bit value of 0; a switch in the Down position signifies a bit value of 1. Some example node-id's are as follows:-

Node-id	S2-1	S2-2	S2-3	S2-4	S2-5	S2-6	S2-7	S2-8
A	Down	Up	Up	Up	Up	Up	Up	Up
B	Up	Down	Up	Up	Up	Up	Up	Up
E	Down	Up	Down	Up	Up	Up	Up	Up
P	Up	Up	Up	Up	Down	Up	Up	Up
Z	Up	Down	Up	Down	Down	Up	Up	Up
1B	Down	Down	Up	Down	Down	Up	Up	Up

Astute readers will note that switch S1 of the PC-13OE card corresponds to switch S2 of the PC-13O card; and switch S2 of the PC-13OE card corresponds to switch S1 of the PC-13O card (see GT817 25-November-1996 for further details).

Finally, the PC-13OE **must** be configured for "star" topology (i.e. NOT "bus" topology) by installing the single jumper labeled "STAR" which is located adjacent to the BNC connector.