



**NOTES**

- THERE ARE VARIOUS OPTIONS OF MEMORY DEVICE TYPE. EXPECTED ONES ARE SHOWN WITH THEIR LINK CONFIGURATIONS IN THE ADJACENT TABLE.
- THE MEMORY IC PIN NUMBERS IN BRACKETS ARE FOR 28 PIN DEVICES.
- WHEN FITTING 28 PIN DEVICES INTO 32 PIN SOCKETS THE BOTTOM OF THE DEVICE MUST ALIGN WITH THE BOTTOM OF THE SOCKET.
- LINKS WOULD ONLY BE FITTED IN POSITION 1-2 IF AN ENLARGED MEMORY SPACE WAS REQUIRED. EG. 256KBYTE EPROM IN U2.
- 6264 HAS CS+ ON PIN 26 (A13) SO ONLY WORKS IN EVERY SECOND 8K BLOCK.

**MEMORY OPTIONS IN U2 EPROM/EEPROM/FLASH**

DEVICE	PINS	LK3	LK13
EPROM			
TEXAS	27C512	28	NP 1-2
	27C010	32	NP 1-2
	27C020	32	NP 2-3
EEPROM			
SEEQ	28C010	32	1-2 1-2
FLASH			
ATMEL	29C010	32	1-2 1-2

**MEMORY OPTIONS IN U3 EPROM/EEPROM/FLASH**

DEVICE	PINS	LK1	LK4	LK5	LK6
EPROM					
TEXAS	27C512	28	2-3 2-3	NP	NP
	27C010	32	2-3 2-3	NP	NP
EEPROM					
SEEQ	28C64	28	NP	1-2	NP
	28C256	28	1-2	1-2	NP
	28C010	32	2-3	2-3	2-3
ATMEL	28FC64	28	NP	1-2	NP
	28C256	28	1-2	1-2	NP
HITACHI	58C65	28	NP	1-2	NP
	58C256	28	1-2	1-2	NP
RAM					
HITACHI	6264	28	NP	1-2	NP
	62256	28	1-2	1-2	NP
	628128	32	1-2	1-2	2-3
FLASH					
ATMEL	29C010	32	2-3 2-3	2-3	2-3

**RAM ONLY IN U4**

DEVICE	PINS
HITACHI	6264 28 (SEE NOTE 5)
	62256 28
	628128 32

AR = AS REQUIRED  
NF = NOT FITTED

**F3200 CONTROLLER VERSIONS**

VERSION	PA No	DESCRIPTION	RZDU COMMS	DUART & SPARE I/O	RAM	EEPROM
1931-111-1	PA0870	FIP CONTROLLER / DISPLAY	MASTER	U13-NF	32K	8K
1931-111-2	PA0871	RZDU CONTROLLER / DISPLAY	RZDU	U13-NF	32K	32K
1931-111-3	PA0872	PROTOCOL TRANSLATION MOD.	MASTER	FITTED	128K	32K

UNLESS OTHERWISE STATED:  
ALL RESISTANCE IN OHMS  
ALL RESISTORS 1/4W 5%  
ALL CAPACITANCE IN FARADS

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Sheet 2

**PA0870**  
**PA0871**  
**PA0872**

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UNLESS OTHERWISE STATED: ALL DIMENSIONS IN MILLIMETRES. DO NOT SCALE. TOLERANCES ARE TO BE: 1 DECIMAL PLACE +/-0.5, 2 DECIMAL PLACES +/-0.3, 3 DECIMAL PLACES +/-0.1

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ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE
1	AS4428.1 CHANGES. PCB No WAS 1931-84. ADDED LDR, NEW PA No's, LINK POSITION NUMBERING ADDED TO LK1, 4-8, 13	3941		TWH			08.03.00

**F3200 AS4428.1 CONTROLLER BOARD CIRCUIT DIAGRAM**

211 MACES ROAD, CHRISTCHURCH 8006, NZ  
P.O. BOX 19-545, CHRISTCHURCH 8030, NZ

SIZE	DRAWING NUMBER	SHEET NUMBER	ISS/REV	PART NUMBER
A1	1931-111	1 of 2	1	As Above