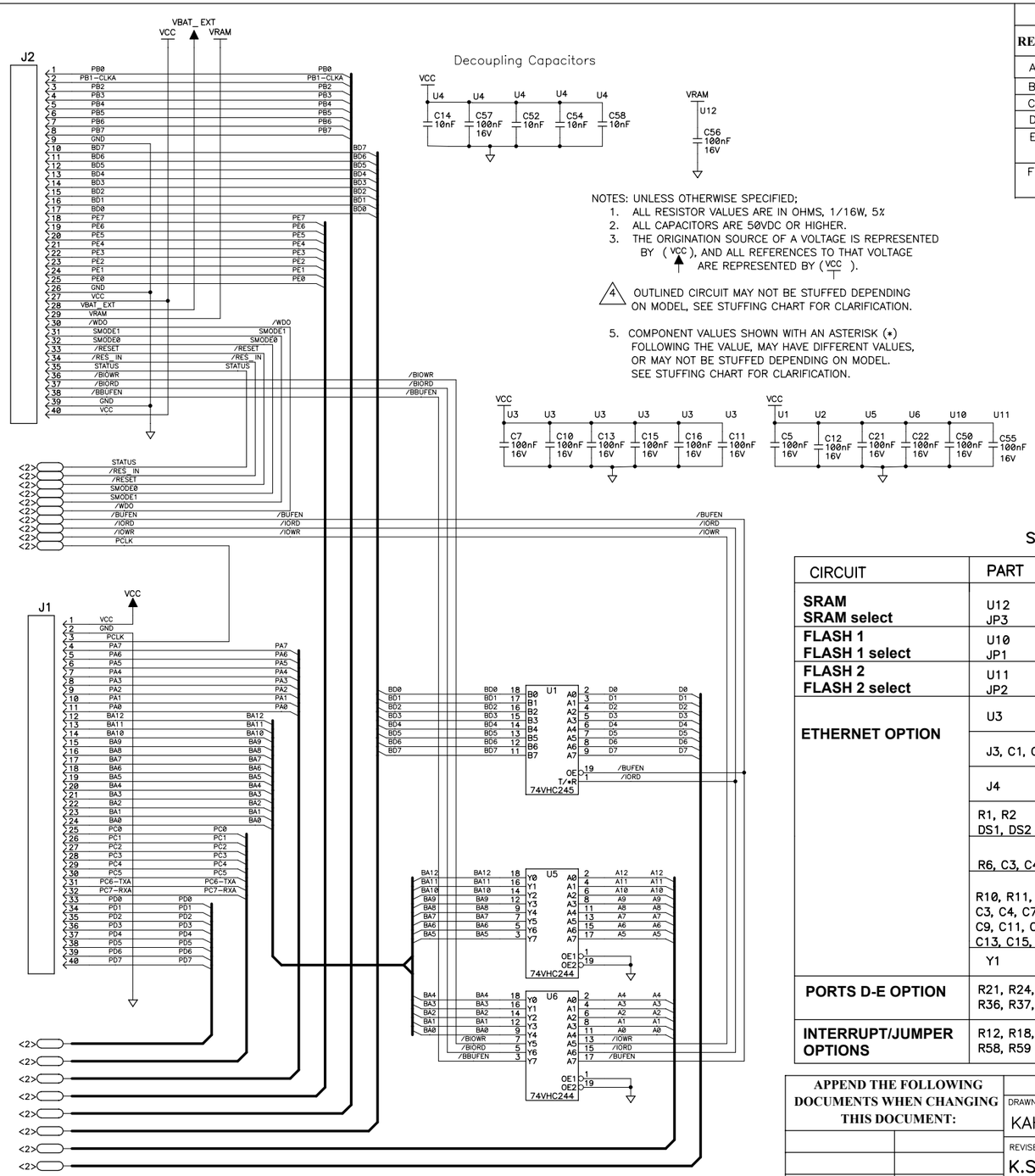

NOTES: UNLESS OTHERWISE SPECIFIED;

1. ALL RESISTOR VALUES ARE IN OHMS, 1/16W, 5%
2. ALL CAPACITORS ARE 50VDC OR HIGHER.
3. THE ORIGINATION SOURCE OF A VOLTAGE IS REPRESENTED BY (VCC), AND ALL REFERENCES TO THAT VOLTAGE ARE REPRESENTED BY (VCC).

4 OUTLINED CIRCUIT MAY NOT BE STUFFED DEPENDING ON MODEL, SEE STUFFING CHART FOR CLARIFICATION.

5. COMPONENT VALUES SHOWN WITH AN ASTERISK (*) FOLLOWING THE VALUE, MAY HAVE DIFFERENT VALUES, OR MAY NOT BE STUFFED DEPENDING ON MODEL. SEE STUFFING CHART FOR CLARIFICATION.

REVISION HISTORY			REVISION APPROVAL			
REV	ECO	DESCRIPTION OF CHANGE	PROJECT ENGINEER	APPROVAL DATE	DOCUMENT CONTROL	APPROVAL DATE
A	E11313	INITIAL RELEASE	DM	19Feb01	KIS	3/24/01
B	E11491	CORRECTED FLASH 2 SELECT TO JP2	DM	24Apr01	KIS	4/25/01
C	E11522	CHANGED C8, C9 TO 10pF	DM	14May01	KIS	5/14/01
D	E11580	MODIFIED VBAT CIRCUITRY, ADDED EXTERNAL 32KHz OSC	DM	17AUG01	KIS	8/24/01
E	E11942	REMOVE THERMISTOR AT RT1, CHANGE R42 TO 11K. REMOVE RCM2115 INFO – OPTION NOT NEEDED.	EP	5/10/02	KIS	5/9/02
F	E12270	IMPROVE ETHERNET JACK CIRCUIT, REMOVE CAPS, BETTER CONNECTOR.	XT	4/30/03	KIS	4/30/03

TABLE A

REF DES	DEVICE	DEVICE VOLTAGE INFORMATION						DEVICE: FILTER CAP REF DES(s)
		AGND	GND	VCC	VRAM	uPBAT		
U1	74VHC245		10	20				C5
U2	ETC811L		2	4				C12
U3	RTL8019AS		14,28,44 52,83,86	6,17,47 57,70,89				C7,10,12,13,15,16
U4	RABBIT 2000		2,27,39 52,77,89	3,28,53, 78,92		42		C14, 57, 52, 54, 58 C25 – PIN42 (uPBAT)
U5	74VHC244		10	20				C21
U6	74VHC244		10	20				C22
U10	FLASH		24	8				C50
U11	FLASH		24	8				C55
U12	SRAM 512K X 8		15		32			C56
	SRAM 128K X 8		15		32			
	SRAM 32K X 8		14		28			

STUFFING TABLE

CIRCUIT	PART	RCM2100	RCM2110	RCM2120	RCM2130
SRAM **SRAM select**	U12 JP3	512K 2–3	128K 1–2	512K 2–3	128K 1–2
FLASH 1 **FLASH 1 select**	U10 JP1	256K 1–2	256K 1–2	256K 1–2	256K 1–2
FLASH 2 **FLASH 2 select**	U11 JP2	256K 1–2	NOT INSTALLED	256K 1–2	NOT INSTALLED
ETHERNET OPTION	U3	INSTALLED	INSTALLED	NOT INSTALLED	NOT INSTALLED
	J3, C1, C2	NOT INSTALLED	NOT INSTALLED	NOT INSTALLED	NOT INSTALLED
	J4	INSTALLED	INSTALLED	NOT INSTALLED	NOT INSTALLED
	R1, R2 DS1, DS2	INSTALLED	INSTALLED	NOT INSTALLED	NOT INSTALLED
	R6, C3, C4	INSTALLED	INSTALLED	NOT INSTALLED	NOT INSTALLED
	R10, R11, R19 C3, C4, C7, C8 C9, C11, C12 C13, C15, C16	INSTALLED	INSTALLED	NOT INSTALLED	NOT INSTALLED
	Y1	INSTALLED	INSTALLED	NOT INSTALLED	NOT INSTALLED
PORTS D-E OPTION	R21, R24, R35 R36, R37, R38	NOT INSTALLED	NOT INSTALLED	INSTALLED	INSTALLED
INTERRUPT/JUMPER OPTIONS	R12, R18, R25 R58, R59	NOT INSTALLED	NOT INSTALLED	NOT INSTALLED	NOT INSTALLED

04/18/03

APPEND THE FOLLOWING DOCUMENTS WHEN CHANGING THIS DOCUMENT:		DRAWING CONTENT:		TITLE	
		DRAWN BY: (INITIAL RELEASE) KAH	25JUL00	SCHEMATIC DIAGRAM RCM2100 SERIES RABBITCORE	Z-WORLD 2900 SPAFFORD ST. DAVIS, CA 95616 530 - 757-4616
		REVISED BY: K.SCHALLER	04/18/03		
		APPROVALS: INITIAL RELEASE			
		PROJECT ENGINEER: D.MUSGROVE	2/15/01	SIZE C	DWG NO. 090–0114
		ENGINEERING MANAGER: R.MATTHEWS	2/15/01		
		SIGNATURES	DATE	SCALE NONE	RELEASE DATE 3/24/01 SHEET 1 OF 2

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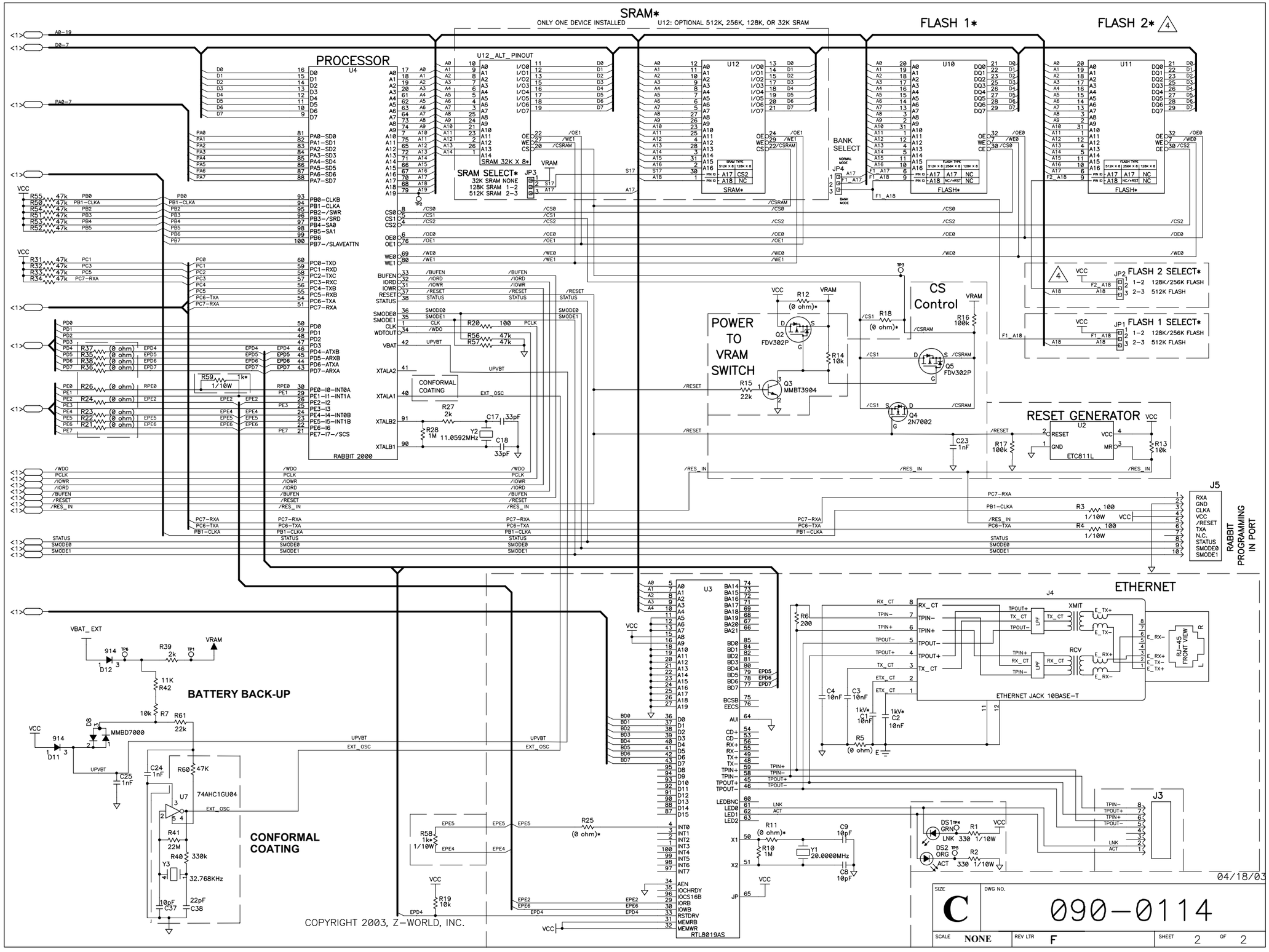
SRAM*
ONLY ONE DEVICE INSTALLED
U12: OPTIONAL 512K, 256K, 128K, OR 32K SRAM
FLASH 1*
FLASH 2*
PROCESSOR
U4
RABBIT 2000
U12_ALT_PINOUT
U12
SRAM*
SRAM 32K X 8*
SRAM SELECT*
32K SRAM NONE
128K SRAM 1-2
512K SRAM 2-3
JP3
VRAM
BANK SELECT
JP4
U10
U11
FLASH*
FLASH 2 SELECT*
FLASH 1 SELECT*
128K/256K FLASH
512K FLASH
CS Control
POWER TO VRAM SWITCH
Q2 FDV302P
Q3 MMBT3904
Q4 2N7002
Q5 FDV302P
R12 (0 ohm)*
R14 10k
R15 22k
R16 100k
R18 (0 ohm)*
CONFORMAL COATING
RESET GENERATOR
U2
ETC811L
RESET
GND
VCC
MR
R17 100k
R13 10k
C23 1nF
J5
RXA
GND
CLKA
VCC
/RESET
TXA
N.C.
STATUS
SMODE0
SMODE1
RABBIT PROGRAMMING IN PORT
R3 100 1/10W
R4 100 1/10W
ETHERNET
J4
XMIT
RCV
LPF
ETHERNET JACK 10BASE-T
RJ-45 FRONT VIEW
R6 200
C4 10nF
C3 10nF
C1 10nF
C2 10nF
R5 (0 ohm)
U3
RTL8019AS
Y1 20.0000MHz
C8 10pF
C9 10pF
R11 (0 ohm)*
R10 1M
DS1 GRN LNK
DS2 ORG ACT
R1 330 1/10W
R2 330 1/10W
J3
BATTERY BACK-UP
VBAT_EXT
D12
R39 2k
R42 11K
R7 10k
R61 22k
D8 MMBD7000
D11
C25 1nF
C24 1nF
R60 47K
U7 74AHC1GU04
CONFORMAL COATING
R41 22M
R40 330k
Y3 32.768KHz
C37 10pF
C38 22pF
R58 1k* 1/10W
R25 (0 ohm)*
R19 10k
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04/18/03
SIZE
C
DWG NO.
090-0114
SCALE
NONE
REV LTR
F
SHEET
2
OF
2