

CPF Switch Board Configuration Template

Rev A 20 Oct 16 ecm

Board S/N: Proto

Schematic Release: E

PWB Rev: A

Application: proto, software dev

Config by: ecm

Date: 20 Oct 16

1.8/3.3V Config

Default shown is 1.8V operation.

Section	1.8V	3.3V
Oscillator	R2 <u>0 ohm</u>	R1 <u>open</u>
UART A (U2)	R6 <u>0 ohm</u>	R5 <u>open</u>
UART B (U7)	R28 <u>0 ohm</u>	R27 <u>open</u>
UART C (U12)	R50 <u>0 ohm</u>	R49 <u>open</u>

Comm A Config

Component	Native Serial	UART	CTD
U2 (XR20M1280)	remove	install	remove
U3 (Max3244)	install	install	remove
R7	remove	install	remove
R8	install	remove	remove
R9	install	remove	remove
R10	remove	install	remove
R4 (CTD pullup)	remove	remove	install
R17 (Max3244 manual)	install	install	
R18 (Max3244 Auto)	remove	remove	

Default address 0x60 for UART A is shown:

SB1	open
SB2	open
SB3	bridge
SB4	open
SB5	open
SB6	open
SB7	bridge
SB8	open

Pwr A Config

Voltage Select – Both jumpers MUST match. Default 12V shown.

	12V	5V
JP1 (input select)	1-2	3-2
JP2 (output select)	1-2	3-2
R23 (voltage scaling)	453k	165k

Default Address 0xCE for Energy Monitor A is shown:

SB9	bridge
SB10	open
SB11	open
SB12	bridge

Comm B Config

Component	Native Serial	UART
U7 (XR20M1280)	remove	install
U8 (Max3226)	install	install
R29	remove	install
R30	remove	install
R31	install	remove
R32	install	remove
R33 (Max3244 manual)	install	install
R35 (Max3244 Auto)	remove	remove

Default address 0x62 for UART B is shown:

SB13	open
SB14	open
SB15	open
SB16	bridge
SB17	open
SB18	open
SB19	bridge
SB20	open

Pwr B Config

Voltage Select – Both jumpers MUST match. Default 12V shown.

	12V	5V
JP3 (input select)	1-2	3-2
JP4 (output select)	1-2	3-2
R45 (voltage scaling)	453k	165k

Default Address 0xD2 for Energy Monitor A is shown:

SB21	bridge
SB22	open
SB23	bridge
SB24	open

Comm C Config

Component	Native Serial	UART
U12 (XR20M1280)	remove	install
U13 (Max3226)	install	install
R51	remove	install
R52	remove	install
R53	install	remove
R54	install	remove
R55 (Max3244 manual)	install	install
R57 (Max3244 Auto)	remove	remove

Default address 0x68 for UART C is shown:

SB25	open
SB26	open
SB27	bridge
SB28	open
SB29	open
SB30	open
SB31	open
SB32	bridge

Pwr C Config

Voltage Select – Both jumpers MUST match. Default 12V shown.

	12V	5V
JP5 (input select)	1-2	3-2
JP6 (output select)	1-2	3-2
R68 (voltage scaling)	453k	165k

Default Address 0xD8 for Energy Monitor A is shown:

SB33	open
SB34	bridge
SB35	open
SB36	bridge