TO PAGE-1 CPU

IRQ1 3C1
IRQ2 3C1
IRQ3 3C1
IRQ4N 3D1

IRQ UART 6
IRQ UART 7
IRQ UART 8
IRQ UART 9
IRQ UART 10
IRQ UART 11
IRQ UART 12
IRQ UART 13

SHUT DN UART 6 3C1
SHUT DN UART 7 3C1
SHUT DN UART 8 3D1
SHUT DN UART 9 3D1
SHUT DN UART 10 3D1
SHUT DN UART 11 3D1
SHUT DN UART 12 3D1
SHUT DN UART 13 3D1

CS UART 6 3C1
CS UART 7 3C1
CS UART 8 3C1
CS UART 9 3C1
CS UART 10 3C1
CS UART 11 3C1
CS UART 12 3C1
CS UART 13 3C1

UARTS split on two SPIs
1, 2, 3 on
6,7,8 off

UARTS on SPI 1
1. 2. 3 off
6, 7, 8 on

SCK1 3D1
MOSI1 3D1
MISO1 3D1

SCK2 3D1
MOSI2 3D1
MISO2 3D1

SWS CHS-08TB

SCK2a
MOSI2a
MISO2a

UART SPI SELECT

SET6 3D1
RESET6 3D1
SET7 3D1
RESET7 3D1
SET8 3D1
RESET8 3D1
SET9 3D1
RESET9 3D1

SET10 3D1
RESET10 3D1
SET11 3D1
RESET11 3D1
SET12 3D1
RESET12 3D1
SET13 3D1
RESET13 3D1

12V RELAY 3A1

VBAT VBATT 3C1
+3.3 +3.3 3C1
GND_SIGNAL 3C1

PORT 6

U20 MAX3111ECWI+G36 — D23 SMDJ22CA, D24 SMDJ22CA — +3.3 0.10uF C73 — C77 20pF16V — Y3 3.6864MHz — C79 20pF16V — R61 47 0603

D21 S1AB-13-F — VBATT 0.10uF C74 — U21 S4EB-L2-12V — SET COIL 6 — RESET COIL 6 — J10 1728307 — F5 BK/PCS — SWDC6 — GND6 — 232 TXD 6 — 232 RXD 6

GND 232 TXD 232 RXD SW DC OUT

PORT 7

U25 MAX3111ECWI+G36 — D29 SMDJ22CA, D30 SMDJ22CA — +3.3 0.10uF C81 — C85 20pF16V — Y5 3.6864MHz — C87 20pF16V — R65 47 0603

D27 S1AB-13-F — VBATT 0.10uF C82 — U26 S4EB-L2-12V — SET COIL 7 — RESET COIL 7 — J12 1728307 — F7 BK/PCS — SWDC7 — GND7 — 232 TXD 7 — 232 RXD 7

GND 232 TXD 232 RXD SW DC OUT

PORT 8

U29 MAX3111ECWI+G36 — D37 SMDJ22CA, D35 SMDJ22CA — +3.3 0.10uF C89 — C94 20pF16V — Y7 3.6864MHz — C96 20pF16V — R67 47 0603

D33 S1AB-13-F — VBATT 0.10uF C90 — U30 S4EB-L2-12V — SET COIL 8 — RESET COIL 8 — J14 1728307 — F9 BK/PCS — SWDC8 — GND8 — 232 TXD 8 — 232 RXD 8

GND 232 TXD 232 RXD SW DC OUT

PORT 9

U33 MAX3111ECWI+G36 — D41 SMDJ22CA, D42 SMDJ22CA — +3.3 0.10uF C98 — C102 20pF16V — Y9 3.6864MHz — C104 20pF16V — R71 47 0603

D39 S1AB-13-F — VBATT 0.10uF C99 — U34 S4EB-L2-12V — SET COIL 9 — RESET COIL 9 — J16 1728307 — F11 BK/PCS — SWDC9 — GND9 — 232 TXD 9 — 232 RXD 9

GND 232 TXD 232 RXD SW DC OUT

12V RELAY — C106 0.10uF — U37 A2982SLWTR-T

SET6 SET COIL 6 — RESET6 RESET COIL 6 — SET7 SET COIL 7 — RESET7 RESET COIL 7 — SET8 SET COIL 8 — RESET8 RESET COIL 8 — SET9 SET COIL 9 — RESET9 RESET COIL 9

PORT 10

U22 MAX3111ECWI+G36 — D25 SMDJ22CA, D26 SMDJ22CA — +3.3 0.10uF C75 — C78 20pF16V — Y4 3.6864MHz — C80 20pF16V — R62 47 0603

D22 S1AB-13-F — VBATT 0.10uF C76 — U23 S4EB-L2-12V — SET COIL 10 — RESET COIL 10 — J11 1728307 — F6 BK/PCS — SWDC10 — GND10 — 232 TXD 10 — 232 RXD 10

GND 232 TXD 232 RXD SW DC OUT

PORT 11

U28 MAX3111ECWI+G36 — D31 SMDJ22CA, D32 SMDJ22CA — +3.3 0.10uF C83 — C86 20pF16V — Y6 3.6864MHz — C88 20pF16V — R66 47 0603

D28 S1AB-13-F — VBATT 0.10uF C84 — U27 S4EB-L2-12V — SET COIL 11 — RESET COIL 11 — J13 1728307 — F8 BK/PCS — SWDC11 — GND11 — 232 TXD 11 — 232 RXD 11

GND 232 TXD 232 RXD SW DC OUT

PORT 12

U32 MAX3111ECWI+G36 — D36 SMDJ22CA, D38 SMDJ22CA — +3.3 0.10uF C91 — C95 20pF16V — Y8 3.6864MHz — C97 20pF16V — R68 47 0603

D34 S1AB-13-F — VBATT 0.10uF C92 — U31 S4EB-L2-12V — SET COIL 12 — RESET COIL 12 — J15 1728307 — F10 BK/PCS — SWDC12 — GND12 — 232 TXD 12 — 232 RXD 12

GND 232 TXD 232 RXD SW DC OUT

PORT 13

U35 MAX3111ECWI+G36 — D43 SMDJ22CA, D44 SMDJ22CA — +3.3 0.10uF C100 — C103 20pF16V — Y10 3.6864MHz — C105 20pF16V — R72 47 0603

D40 S1AB-13-F — VBATT 0.10uF C101 — U36 S4EB-L2-12V — SET COIL 13 — RESET COIL 13 — J17 1728307 — F12 BK/PCS — SWDC13 — GND13 — 232 TXD 13 — 232 RXD 13

GND 232 TXD 232 RXD SW DC OUT

12V RELAY — C107 0.10uF — U38 A2982SLWTR-T

SET10 SET COIL 10 — RESET10 RESET COIL 10 — SET11 SET COIL 11 — RESET11 RESET COIL 11 — SET12 SET COIL 12 — RESET12 RESET COIL 12 — SET13 SET COIL 13 — RESET13 RESET COIL 13

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