Partial text labels visible on the PCB layout:

H1 — MountingHole
LED D7 — POWER — 470 — R13
LED D3 — INT — 470 — R5
6809 D4 — 6809 EN — 470Ω — R8
LED D2 — NMI — 470 — R4
LED D9 — CS — 470 — R12

J3 — 6809 ONLY
J2 — 6809 RESET
JP3 — GENERATE RESET
C35 0.1u

H2 — MountingHole
SW1 — RESET
J11 — FRONT PANEL
GND RTS VCC RX TX CTS

C46 47uF
IO DECODER — U3 — GAL22V10
R9 1KΩ
NT3 NetTie_2
C32 0.1u
C33 0.1u
U21 74LS74 — C34 0.1u
C31 0.1u — U31 — 74LS374
C36 0.1u — RN5 4700
C29 22u

J7 — INT0 EIRQ0 EIRQ1 EIRQ2 EIRQ3 EIRQ4 EIRQ5 EIRQ6 EIRQ7 — I2C IRQ Selection
J8 — INT0 EIRQ0 EIRQ1 EIRQ2 EIRQ3 EIRQ4 EIRQ5 EIRQ6 EIRQ7 — UART IRQ Selection

U16 74LS08 — C11 0.1u — C39 0.1u
U29 74LS670 — C22 0.1u
U24 74LS670
BUS SIGNALS — U2 — GAL16V8 — C38 0.1u
C14 0.1u

J6 — INT0 EIRQ0 EIRQ1 EIRQ2 EIRQ3 EIRQ4 EIRQ5 EIRQ6 EIRQ7 — IRQ Selection
J5 — NMI EIRQ0 EIRQ1 EIRQ2 EIRQ3 EIRQ4 EIRQ5 EIRQ6 EIRQ7 — NMI Selection

CPU CLOCK — U13 — 74LS04 — C3 0.1u
R1 1K — C17 0.1u
U5 27C010
ADDRESS DECODER — U9 — GAL22V10 — C24 0.1u
RN3 470
U34 74LS157 — C45 0.1u

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U15 74LS04 — C18 0.1u
J10 MRDY — R6 1K
U4 74LS07 — C6 0.1u
C26 10u
RN1 4700

U20 — C4 0.1u
MC6809 U28 — C23 0.1u — C12 0.1u
UART CLOCK — U18 — C13 0.1u
U27 PCF8584 — C40 0.1u
TL16C550CFN

BUS CPU — JP4
JP1 — U15 DS1233 — GENERATE CLOCK — C19 0.1u
RN4 4700

U17 74LS244 — C21 0.1u
U7 74LS14 — C2 0.1u
IO Address Select — J96
JP10 A7 A6 A5 A4 — IO PORT ADDR $50–$5F — RN8
NT4 NetTie_2 — R2 10K — R3 10K — C30 0.1u
U12 74LS688 — C9 0.1u

J9 — INT0 EIRQ0 EIRQ1 EIRQ2 EIRQ3 EIRQ4 EIRQ5 EIRQ6 EIRQ7 — FIRQ Selection

U6 74LS244 — C5 0.1u
U22 74LS688 — C37 0.1u
RN2 10KΩ

1N4148 D6 — R7 10 — J4 RES SEL
U14 74LS244 — C10 0.1u
U10 74LS244 — C20 0.1u
U8 74LS244 — C8 0.1u
U11 74LS245 — C16 0.1u

C25 10u — P1 — CONN_02X25
C27 10u — PROCESSOR.6809, VERSION 1.2, AS OF 9 MAY 2024 — P2 — CONN_02X25
C28 10u — PATCH LEVEL 0_ 1_ 2_ 3_ 4_ 5_ 6_ 7_ 8_ 9_ — P3 — CONN_02X25

BOARD GUIDES EXCLUSION ZONE

Sheet:
File: processor.6809.kicad_pcb
Title: DUODYNE 6809 PROCESSOR
Size: B   Date: 2024–05–09   Rev: v1.2
KiCad E.D.A. kicad (6.0.11)   Id: 1/1