U2

+5U 35 V+ P4 30
39 GND1 P5 28
37 GND P6 26
38 GND- P7 24
36 ISET P8 1
R1 P9 3
39K R0603 P10 5
33 DIN P11 7
GND MOSI 32 SCLK P12 2
SCK 34 CS P13 4
MISO 40 DOUT P14 6
P15 8
P16 9
29 P31 P17 10
27 P30 P18 12
25 P29 P19 13
23 P28 P20 14
22 P27 P21 15
21 P26 P22 16
19 P25 P23 17
18 P24

MAX6957ATL

/CS3
CS3
/CS2
CS2
/CS1
CS1
/CS0
CS0

1st board: CS0
2nd board: CS1
3rd board: CS2
4th board: CS3

SPI TO LED DRIVER

U1

P$46 P$45 P$44 P$43 P$42 P$41 P$40 P$39 P$38 P$37 P$36 P$35

MICRONOVA_DYS

+5U
N$28 Q1 BSS84
ANOG1
ADR1 Q2 BSS84
ANOG2
N$27 Q3 BSS84
ANOG3
N$19 Q4 BSS84
ANOG4
N$31 Q5 BSS84
ANOG5
ADR3 Q6 BSS84
ANOG6
Q7 BSS84

P$9 P$10 P$11 P$12 P$13

ANOG1 ANOG2 ANOG3 ANOG4

PER CHAR ANODE DRIVERS (MUX'D)

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+5V · · · 5V   +5.
MOSI · · · MOSI   MOSI.
SCK · · · SCK   SCK.
MISO · · · MISO   MISO.
$\overline{CS0}$ · · · $\overline{CS0}$ $\overline{CS0.}$
$\overline{CS1}$ · · · $\overline{CS1}$ $\overline{CS1.}$
$\overline{CS2}$ · · · $\overline{CS2}$ $\overline{CS2.}$
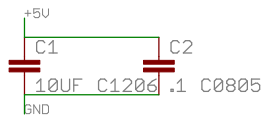$\overline{CS3}$ · · · $\overline{CS3}$ $\overline{CS3.}$
GND · · · GND   GND.

EDGE CONNECTORS
(DAISY CHAINABLE)

ANOG1 : LEFT-MOST DIGIT ANODE
ANOG2 :
ANOG3 :
ANOG4 :
ANOG5 :
ANOG6 : RIGHT-MOST DIGIT ANODE
ANOG7 : MISC INTER-CHAR DOTS AND TICKS ANODE
P24 : MISC PER-DIGIT TICKS AND DOTS
P25 : MISC PER-DIGIT TICKS AND DOTS
P26 : MISC PER-DIGIT TICKS AND DOTS
P27 : MISC PER-DIGIT TICKS AND DOTS
P28 : MISC PER-DIGIT TICKS AND DOTS
P29 : MISC PER-DIGIT TICKS AND DOTS
P30 : DIGIT SEGMENTS
P31 : DIGIT SEGMENTS
P32 : DIGIT SEGMENTS
P33 : DIGIT SEGMENTS
P34 : DIGIT SEGMENTS
P35 : DIGIT SEGMENTS
P36 : DIGIT SEGMENTS
P37 : DIGIT SEGMENTS
P38 : DIGIT SEGMENTS
P39 : DIGIT SEGMENTS
P40 : DIGIT SEGMENTS
P41 : DIGIT SEGMENTS
P42 : DIGIT SEGMENTS
P43 : DIGIT SEGMENTS
P44 : DIGIT SEGMENTS
P45 : DIGIT SEGMENTS

+5V
C1   C2
10UF C1206 .1 C0805
GND

SR00P401101

CHANGES FROM X2:
-CORRECTED P-CH FET ANODE DRIVERS
-ADDED 7TH ANODE DRIVER FOR INTER-CHAR DOTS AND DASHES
-ALL BUT 2 LEDS WITHIN A CHARACTER ARE ADDREESSABLE

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