

[illegible]

The schematic diagram illustrates the internal circuitry of the M20-7832046 module. It features a power input section with a 10kΩ resistor (R75) and a 100V/10kΩ fuse (F2) connected to the V+ pin. The input is regulated by a 1206L110TH voltage regulator (F1) to provide a 5V supply (RPI 5V). A 100μF/16V electrolytic capacitor (C16) and a 10μF/10V electrolytic capacitor (C17) are used for decoupling. The module also includes a 1206L110TH voltage regulator (F3) connected to the RPI 3V3 pin. The module's internal components are connected to the RPI 5V and 3V3 pins, and the module's output is connected to the RPI 5V and 3V3 pins. The module's internal components are connected to the RPI 5V and 3V3 pins, and the module's output is connected to the RPI 5V and 3V3 pins.

The circuit diagram shows a 4-bit parallel adder implemented using two 74HC05D inverters and a 4555D counter. The 74HC05D inverters are used to invert the inputs A and B of the 4555D counter. The 4555D counter is configured as a 4-bit parallel adder, with its outputs Q0, Q1, Q2, and Q3 connected to the 4-bit parallel adder. The 4555D counter is also connected to a 74HC05D inverter, which is used to invert the output of the 4-bit parallel adder.

LED WH AN FILT

R54 68R
LED24
ASMT-UWB1-NX302

R55 68R
LED25
ASMT-UWB1-NX302

R56 68R
LED26
ASMT-UWB1-NX302

R57 68R
LED27
ASMT-UWB1-NX302

R58 68R
LED28
ASMT-UWB1-NX302

R59 68R
LED29
ASMT-UWB1-NX302

R60 68R
LED30
ASMT-UWB1-NX302

R61 68R
LED31
ASMT-UWB1-NX302

LED CAT COM

[illegible]

12V

X7-8

ASMT-YTB7-0A02
R46 LED20R

47R

X7-7

ASMT-YTB7-0A02
R48 LED20G

47R

X7-6

ASMT-YTB7-0A02
R50 LED20B

47R

X7-5

LR189F-U1AA-1-Z
LED21
R51

47R

X7-4

LR189F-U1AA-1-Z
LED22
R52

47R

X7-3

LG1676-P102-24-Z
LED23
R53

47R

X7-2

MOUNT-HOLE 3.0

MOUNT-HOLE 3.0

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[illegible]

Ballast resistors for Wh/IR LEDs for ~1V over CAT4101
Use one Littelfuse 60R075 per UV LED to add overheat protection to UV LEDs.

Use TE Connectivity 1483352-1 to connect status LED board
Maximum output current of 750mA cont. for UV LEDs. Currently set to ~680mA.
AVR status LEDs must have a VF > 1.8V
Use GST18E05-P1J Mean Well power supply

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