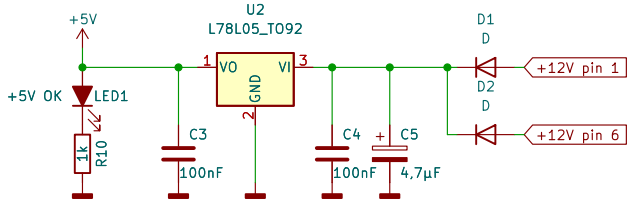
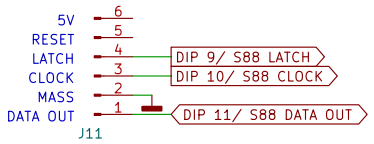
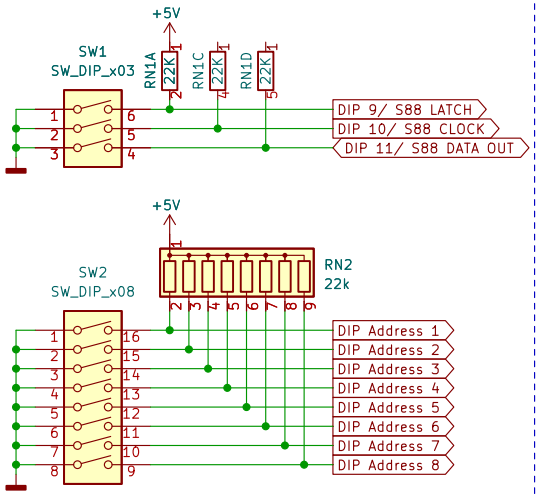
+5V Power



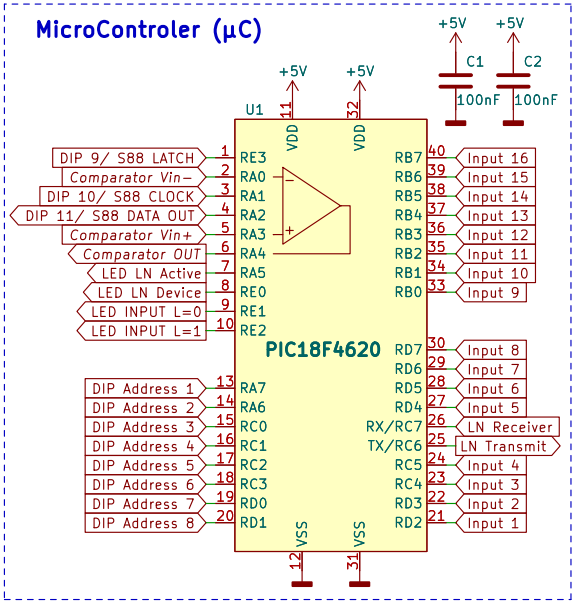
Optional 2: S88 BUS



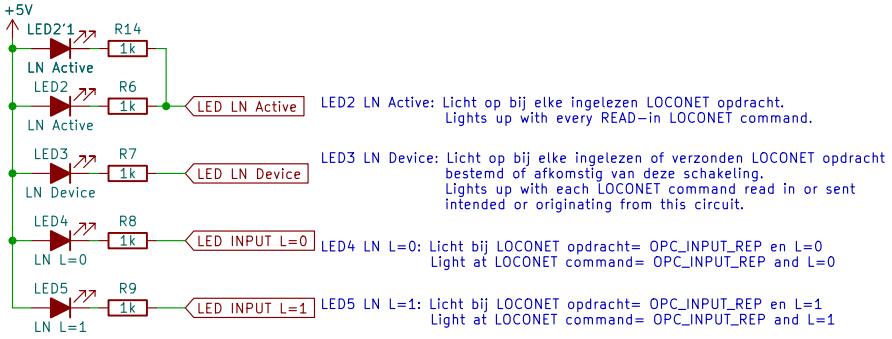
Optional 1: Settings



MicroControler (µC)



Indication LED

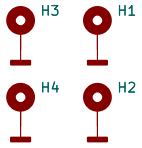


LED2 LN Active: Licht op bij elke ingelezen LOCONET opdracht.
Lights up with every READ−in LOCONET command.

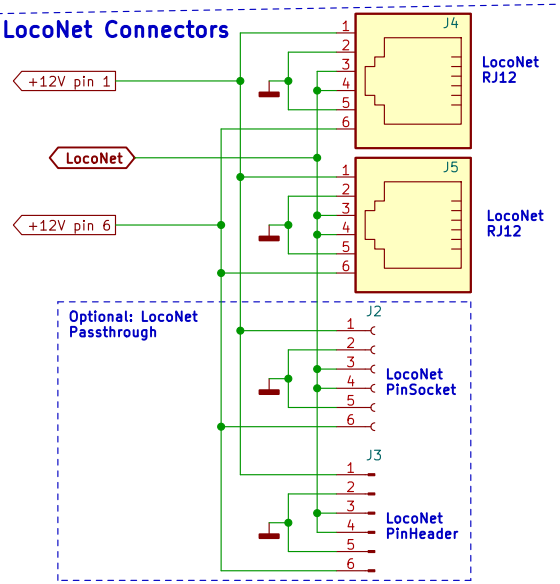
LED3 LN Device: Licht op bij elke ingelezen of verzonden LOCONET opdracht bestemd of afkomstig van deze schakeling.
Lights up with each LOCONET command read in or sent intended or originating from this circuit.

LED4 LN L=0: Licht bij LOCONET opdracht= OPC_INPUT_REP en L=0
Light at LOCONET command= OPC_INPUT_REP and L=0

LED5 LN L=1: Licht bij LOCONET opdracht= OPC_INPUT_REP en L=1
Light at LOCONET command= OPC_INPUT_REP and L=1



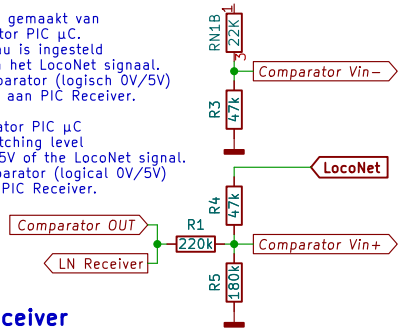
LocoNet Connectors



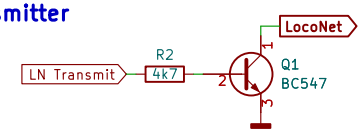
LocoNet Receiver

Er wordt gebruik gemaakt van
interne comparator PIC µC.
Het schakelniveau is ingesteld
op ↓4V ↑5V van het LocoNet signaal.
De uitgang comparator (logisch 0V/5V)
wordt aangelegd aan PIC Receiver.

Internal comparator PIC µC
is used. The switching level
is set to ↓4V ↑5V of the LocoNet signal.
The output comparator (logical 0V/5V)
is connected to PIC Receiver.



LocoNet Transmitter

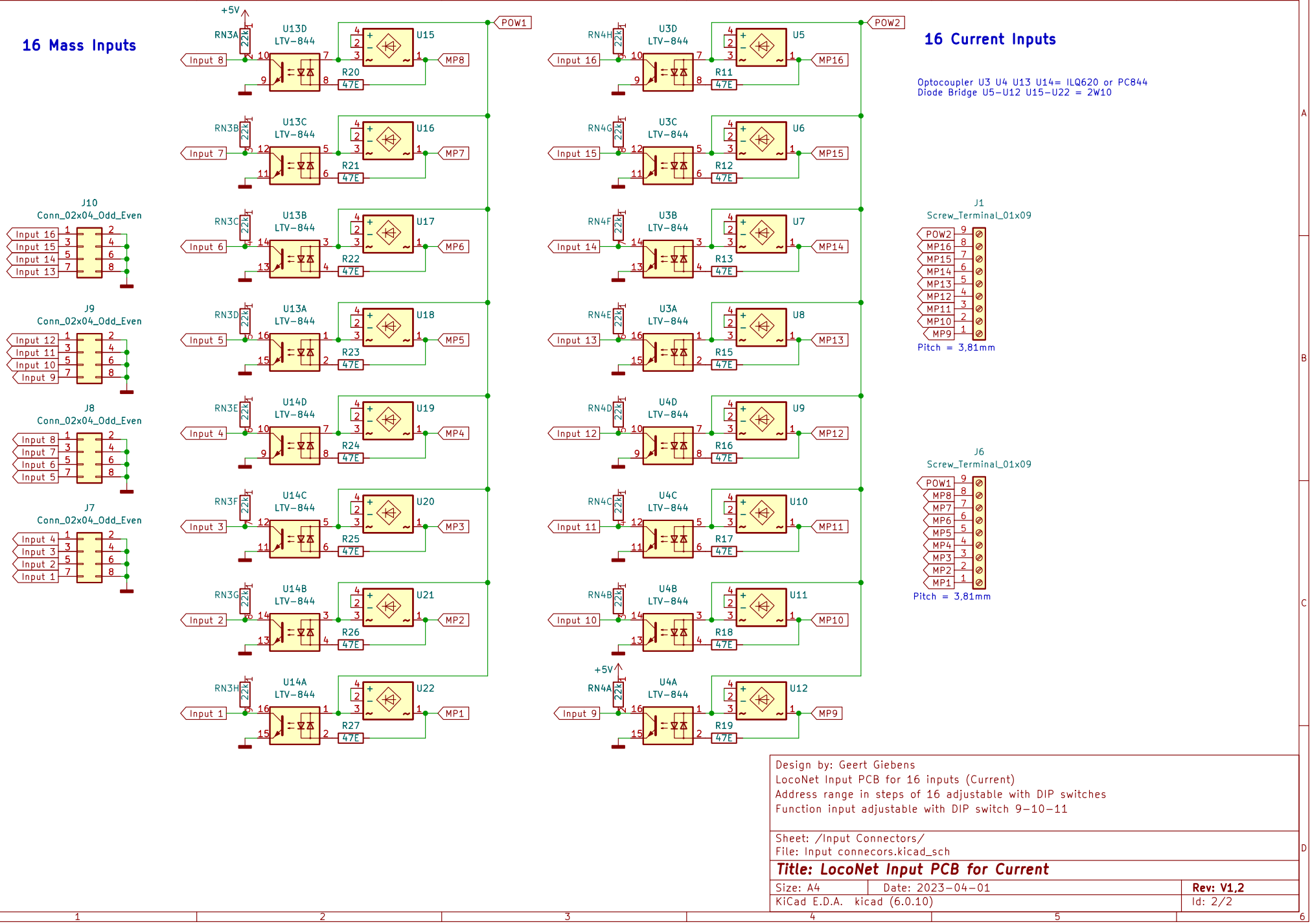


Design by: Geert Giebens
LocoNet Input PCB for 16 inputs (Current)
Address range in steps of 16 adjustable with DIP switches
Function input adjustable with DIP switch 9−10−11

Sheet: /
File: LocoNet Input Current V1p0.kicad_sch

Title: LocoNet Input PCB for Current

Size: A4	Date: 2023−04−01	**Rev: V1.2**
KiCad E.D.A. kicad (6.0.10)		Id: 1/2


16 Mass Inputs
16 Current Inputs
Optocoupler U3 U4 U13 U14= ILQ620 or PC844
Diode Bridge U5–U12 U15–U22 = 2W10
+5V
POW1
POW2
RN3A 22k
RN3B 22k
RN3C 22k
RN3D 22k
RN3E 22k
RN3F 22k
RN3G 22k
RN3H 22k
RN4H 22k
RN4G 22k
RN4F 22k
RN4E 22k
RN4D 22k
RN4C 22k
RN4B 22k
RN4A 22k
U13D LTV-844
U13C LTV-844
U13B LTV-844
U13A LTV-844
U14D LTV-844
U14C LTV-844
U14B LTV-844
U14A LTV-844
U3D LTV-844
U3C LTV-844
U3B LTV-844
U3A LTV-844
U4D LTV-844
U4C LTV-844
U4B LTV-844
U4A LTV-844
U15
U16
U17
U18
U19
U20
U21
U22
U5
U6
U7
U8
U9
U10
U11
U12
R20 47E
R21 47E
R22 47E
R23 47E
R24 47E
R25 47E
R26 47E
R27 47E
R11 47E
R12 47E
R13 47E
R15 47E
R16 47E
R17 47E
R18 47E
R19 47E
Input 8
Input 7
Input 6
Input 5
Input 4
Input 3
Input 2
Input 1
Input 16
Input 15
Input 14
Input 13
Input 12
Input 11
Input 10
Input 9
MP8
MP7
MP6
MP5
MP4
MP3
MP2
MP1
MP16
MP15
MP14
MP13
MP12
MP11
MP10
MP9
J10
Conn_02x04_Odd_Even
J9
Conn_02x04_Odd_Even
J8
Conn_02x04_Odd_Even
J7
Conn_02x04_Odd_Even
J1
Screw_Terminal_01x09
POW2 MP16 MP15 MP14 MP13 MP12 MP11 MP10 MP9
Pitch = 3,81mm
J6
Screw_Terminal_01x09
POW1 MP8 MP7 MP6 MP5 MP4 MP3 MP2 MP1
Pitch = 3,81mm
Design by: Geert Giebens
LocoNet Input PCB for 16 inputs (Current)
Address range in steps of 16 adjustable with DIP switches
Function input adjustable with DIP switch 9–10–11
Sheet: /Input Connectors/
File: Input connecors.kicad_sch
Title: LocoNet Input PCB for Current
Size: A4
Date: 2023-04-01
Rev: V1.2
KiCad E.D.A. kicad (6.0.10)
Id: 2/2