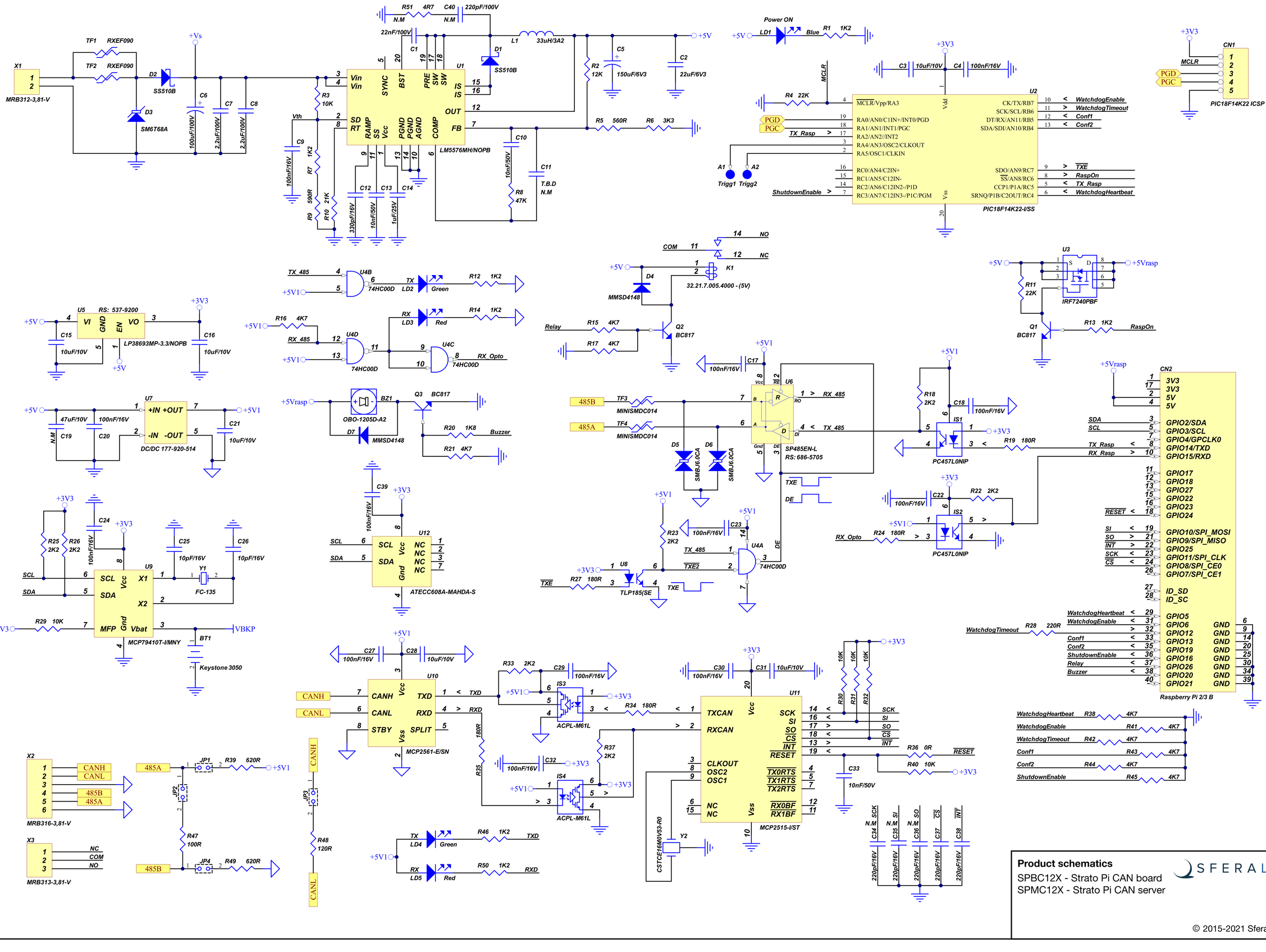

X1
MRB312-3,81-V
TF1 RXEF090
TF2 RXEF090
D2 SS510B
D3 SM6T68A
+Vs
C6 100uF/100V
C7 2.2uF/100V
C8 2.2uF/100V
R51 4R7 N.M
C40 220pF/100V N.M
22nF/100V C1
L1 33uH/3A2
D1 SS510B
+5V
R2 12K
C5 150uF/6V3
C2 22uF/6V3
R5 560R
R6 3K3
U1
Vin Vin SYNC BST PRE SW SW IS IS OUT SD RT RAMP SS Vcc PGND PGND AGND COMP FB
LM5576MH/NOPB
Vth
R3 10K
C9 100nF/16V
R7 1K2
R8 590R
R9 21K
R10 330pF/16V
C12 10nF/50V
C13 1uF/25V
C14
C10 10nF/50V
C11 T.B.D N.M
R8 47K
Power ON
LD1 Blue
R1 1K2
MCLR
R4 22K
PGD
PGC
TX_Rasp
A1 Trigg1
A2 Trigg2
ShutdownEnable
+3V3
C3 10uF/10V
C4 100nF/16V
U2
MCLR/Vpp/RA3
RA0/AN0/C1IN+/INT0/PGD
RA1/AN1/INT1/PGC
RA2/AN2//INT2
RA4/AN3/OSC2/CLKOUT
RA5/OSC1/CLKIN
RC0/AN4/C2IN+
RC1/AN5/C12IN-
RC2/AN6/C12IN2-/P1D
RC3/AN7/C12IN3-/P1C/PGM
Vdd
Vss
CK/TX/RB7
SCK/SCL/RB6
DT/RX/AN11/RB5
SDA/SDI/AN10/RB4
SDO/AN9/RC7
SS/AN8/RC6
CCP1/P1A/RC5
SRNQ/P1B/C2OUT/RC4
WatchdogEnable
WatchdogTimeout
Conf1
Conf2
TXE
RaspOn
TX_Rasp
WatchdogHeartbeat
PIC18F14K22-I/SS
+3V3
CN1
MCLR
PGD
PGC
PIC18F14K22 ICSP
U5 RS: 537-9200
VI GND EN VO
LP38693MP-3.3/NOPB
C15 10uF/10V
C16 10uF/10V
+5V
+3V3
+5V1
TX_485
U4B
74HC00D
TX LD2 Green
R12 1K2
RX LD3 Red
R14 1K2
R16 4K7
RX_485
U4D
U4C
RX_Opto
R15 4K7
R17 4K7
Relay
Q2 BC817
COM
NO
NC
K1 32.21.7.005.4000 - (5V)
D4 MMSD4148
U3
IRF7240PBF
R11 22K
Q1 BC817
R13 1K2
+5Vrasp
U7
+IN +OUT -IN -OUT
DC/DC 177-920-514
47uF/10V N.M
C19 100nF/16V
C20
C21 10uF/10V
BZ1 OBO-1205D-A2
D7 MMSD4148
Q3 BC817
R20 1K8 Buzzer
R21 4K7
C17 100nF/16V
485B
485A
TF3 MINISMDC014
TF4 MINISMDC014
U6
R RO D DI
SP485EN-L
RS: 686-5705
D5 SMBJ6.0CA
D6 SMBJ6.0CA
TXE
DE
R18 2K2
C18 100nF/16V
IS1
PC457L0NIP
R19 180R
CN2
3V3 3V3 5V 5V
GPIO2/SDA GPIO3/SCL GPIO4/GPCLK0 GPIO14/TXD GPIO15/RXD
GPIO17 GPIO18 GPIO27 GPIO22 GPIO23 GPIO24
GPIO10/SPI_MOSI GPIO9/SPI_MISO GPIO25 GPIO11/SPI_CLK GPIO8/SPI_CE0 GPIO7/SPI_CE1
ID_SD ID_SC
GPIO5 GPIO6 GPIO12 GPIO13 GPIO19 GPIO16 GPIO26 GPIO20 GPIO21
GND
Raspberry Pi 2/3 B
C22 100nF/16V
R22 2K2
IS2
PC457L0NIP
R24 180R
C23 100nF/16V
R23 2K2
U4A
74HC00D
U8
TLP185(SE
R27 180R
C24 100nF/16V
R25 2K2
R26 2K2
U9
SCL SDA Vcc X1 X2 MFP Gnd Vbat
MCP79410T-I/MNY
C25 10pF/16V
C26 10pF/16V
Y1 FC-135
R29 10K
VBKP
BT1 Keystone 3050
C39 100nF/16V
U12
SCL SDA Vcc NC NC NC NC Gnd
ATECC608A-MAHDA-S
C27 100nF/16V
C28 10uF/10V
U10
CANH CANL STBY TXD RXD SPLIT Vcc Vss
MCP2561-E/SN
R33 2K2
C29 100nF/16V
IS3 ACPL-M61L
R34 180R
R35 180R
C32 100nF/16V
IS4 ACPL-M61L
R37 2K2
C30 100nF/16V
C31 10uF/10V
U11
TXCAN RXCAN CLKOUT OSC2 OSC1 NC NC Vcc Vss SCK SI SO CS INT RESET TX0RTS TX1RTS TX2RTS RX0BF RX1BF
MCP2515-I/ST
CSTCE16M0V53-R0
Y2
C33 10nF/50V
10K 10K 10K
R30 R31 R32
R36 0R
R40 10K
C34 C35 C36 C37 C38 220pF/16V
X2
MRB316-3,81-V
CANH CANL 485B 485A
X3
MRB313-3,81-V
NC COM NO
JP1 JP2 JP4
R39 620R
R47 100R
R48 120R
R49 620R
TX LD4 Green
RX LD5 Red
R46 1K2 TXD
R50 1K2 RXD
WatchdogHeartbeat R38 4K7
WatchdogEnable R41 4K7
WatchdogTimeout R42 4K7
Conf1 R43 4K7
Conf2 R44 4K7
ShutdownEnable R45 4K7
Product schematics
SPBC12X - Strato Pi CAN board
SPMC12X - Strato Pi CAN server
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