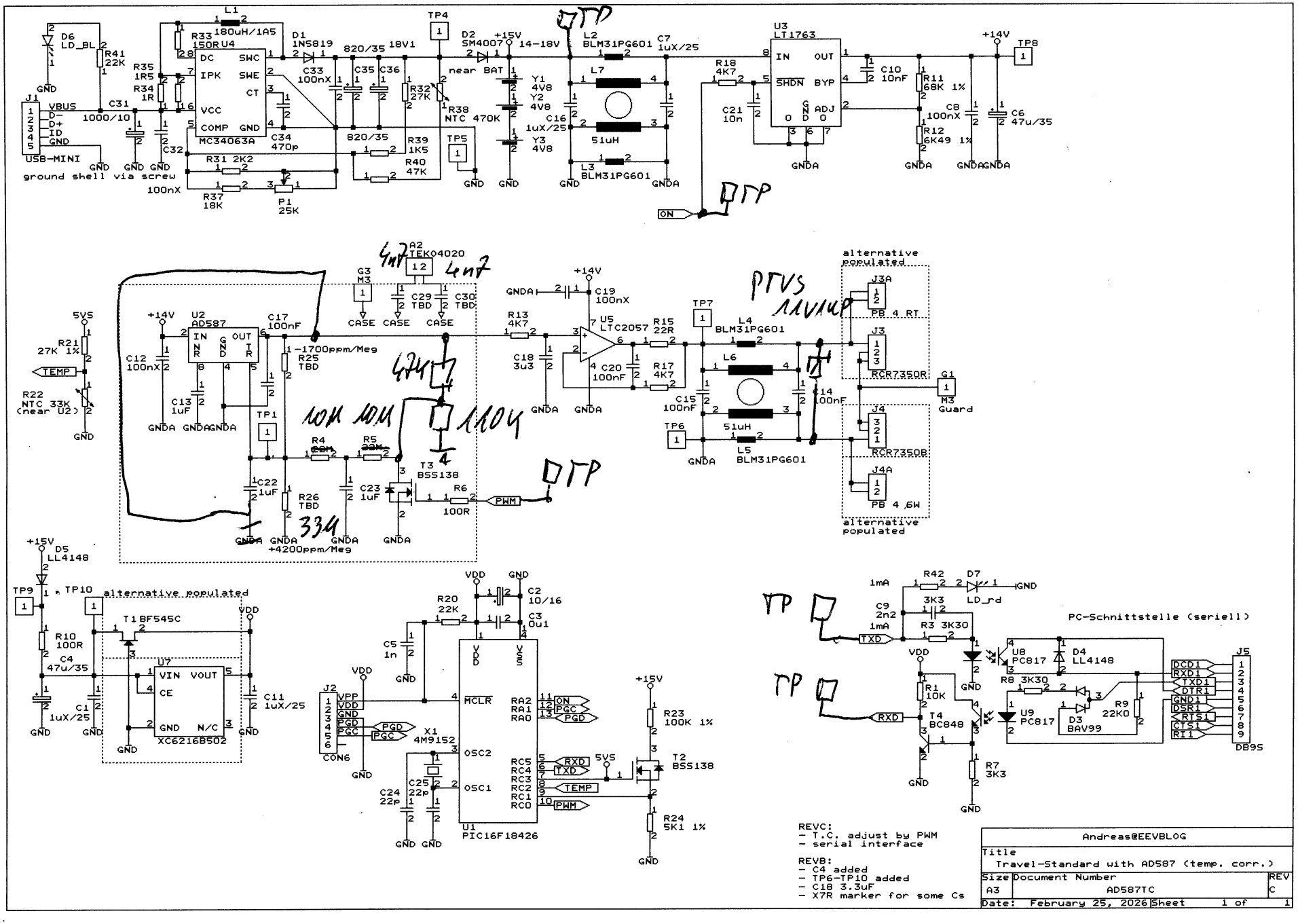
L1 180uH/1A5
D6 LD_BL
R41 22K
R33 150R
U4 MC34063A
DC SWC
IPK SWE
CT
VCC
COMP GND
D1 1N5819
820/35
18V1
TP4
D2 SM4007
+15V
14-18V
near BAT
L2 BLM31PG601
C7 1uX/25
Y1 4V8
Y2 4V8
Y3 4V8
L7
C16 1uX/25
51uH
L3 BLM31PG601
U3 LT1763
IN OUT
SHDN BYP
GND ADJ
R18 4K7
C21 10n
C10 10nF
R11 68K 1%
R12 6K49 1%
C8 100nX
C6 47u/35
+14V
TP8
GNDA
J1 USB-MINI
VBUS
D-
D+
ID
GND
ground shell via screw
C31 1000/10
C32 100nX
R35 1R5
R34 1R
R32 27K
R38 NTC 470K
C33 100nX
C35
C36
C34 470p
R31 2K2
R37 18K
P1 25K
R39 1K5
R40 47K
TP5
ON
A2 TEK04020
G3 M3
CASE
C29 TBD
C30 TBD
U2 AD587
IN GND OUT
C17 100nF
C12 100nX
C13 1uF
R25 TBD
-1700ppm/Meg
+4200ppm/Meg
C19 100nX
U5 LTC2057
R13 4K7
R15 22R
R17 4K7
C18 3u3
C20 100nF
TP7
L4 BLM31PG601
L6
51uH
L5 BLM31PG601
C15 100nF
C14 100nF
TP6
alternative populated
J3A
PB 4 RT
J3
RCR7350R
J4
RCR7350B
J4A
PB 4 6W
G1 M3 Guard
5VS
R21 27K 1%
TEMP
R22 NTC 33K (near U2)
TP1
R4
R5
T3 BSS138
R6 100R
PWM
C22 1uF
C23 1uF
R26 TBD
D5 LL4148
TP9
TP10
T1 BF545C
R10 100R
C4 47u/35
U7
VIN VOUT
CE
GND N/C
XC6216B502
C1 1uX/25
C11 1uX/25
VDD
R20 22K
C2 10/16
C3 10u1
C5 1n
U1 PIC16F18426
MCLR
OSC2
OSC1
RA2
RA1
RA0
RC5
RC4
RC3
RC2
RC1
RC0
X1 4M9152
C25 22p
C24 22p
J2 CON6
VPP
PGD
PGC
ON
RXD
TXD
TEMP
PWM
R23 100K 1%
T2 BSS138
R24 5K1 1%
R42 3K3
D7 LD_rd
1mA
C9 2n2
R3 3K30
TXD
RXD
R1 10K
T4 BC848
R7 3K3
U8 PC817
D4 LL4148
R8 3K30
U9 PC817
D3 BAV99
R9 22K0
PC-Schnittstelle (seriell)
J5 DB9S
DCD1
RXD1
TXD1
DTR1
GND1
DSR1
RTS1
CTS1
RI1
REVC:
- T.C. adjust by PWM
- serial interface
REVB:
- C4 added
- TP6-TP10 added
- C18 3.3uF
- X7R marker for some Cs
Andreas@EEVBLOG
Title
Travel-Standard with AD587 (temp. corr.)
Size A3
Document Number AD587TC
REV C
Date: February 25, 2026
Sheet 1 of 1