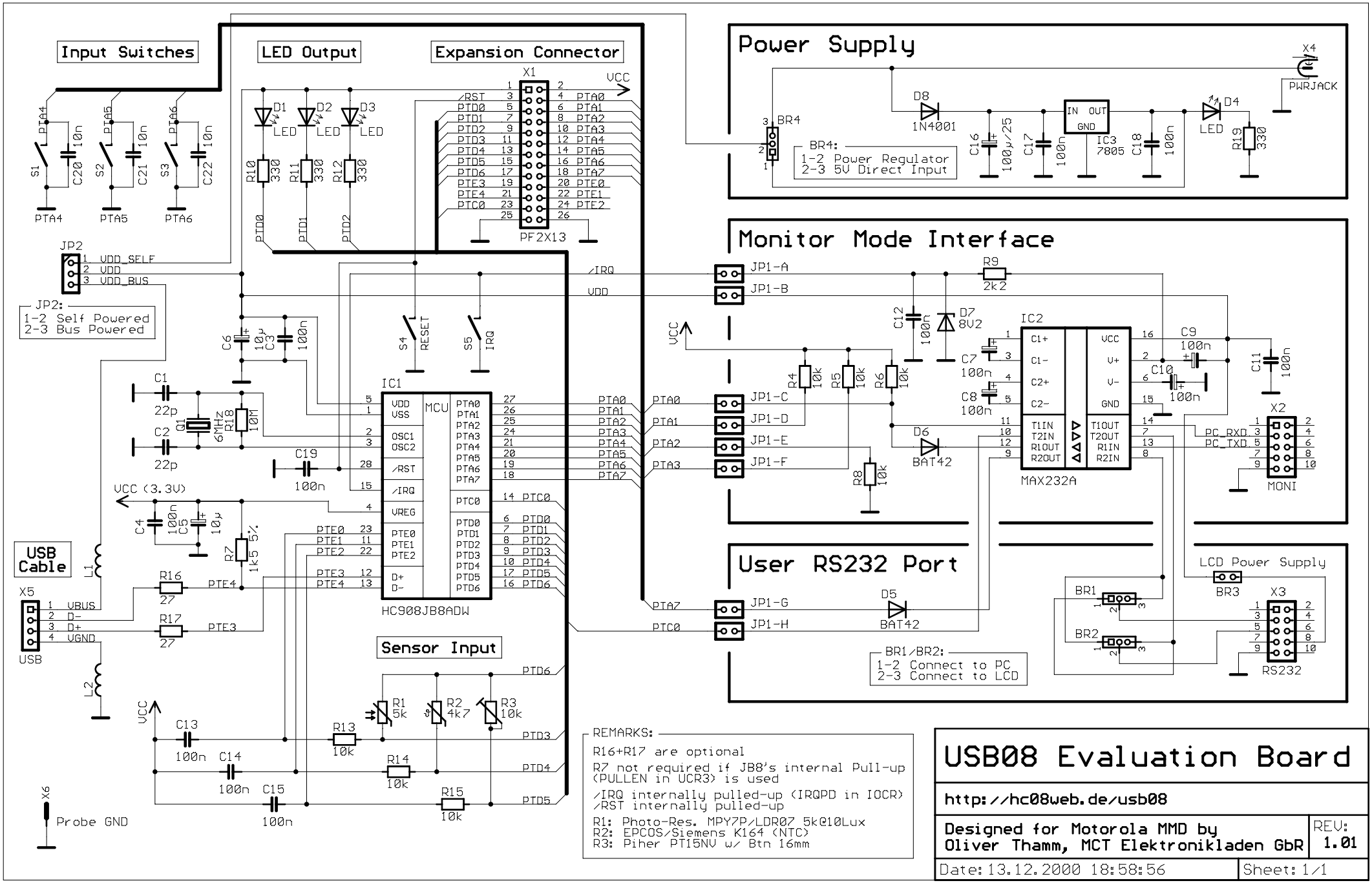
Input Switches
LED Output
Expansion Connector
Power Supply
Monitor Mode Interface
User RS232 Port
USB Cable
Sensor Input
X1
PF2X13
IC1
HC908JB8ADW
IC2
MAX232A
IC3
7805
X2
MONI
X3
RS232
X4
PWRJACK
X5
USB
X6
Probe GND
JP2
JP2:
1-2 Self Powered
2-3 Bus Powered
BR4:
1-2 Power Regulator
2-3 5V Direct Input
BR1/BR2:
1-2 Connect to PC
2-3 Connect to LCD
LCD Power Supply
VCC (3.3V)
VCC
/IRQ
VDD
PTA0
PTA1
PTA2
PTA3
PTA4
PTA5
PTA6
PTA7
PTC0
PTD0
PTD1
PTD2
PTD3
PTD4
PTD5
PTD6
PTE0
PTE1
PTE2
PTE3
PTE4
PC_RXD
PC_TXD
VDD_SELF
VDD_BUS
VBUS
D-
D+
VGND
/RST
RESET
IRQ
Q1
6MHz
R18
10M
R7
1k5 5%
R16
27
R17
27
R1
5k
R2
4k7
R3
10k
R13
10k
R14
10k
R15
10k
R9
2k2
R4
10k
R5
10k
R6
10k
R8
10k
D6
BAT42
D5
BAT42
D7
8V2
D8
1N4001
D4
LED
D1
LED
D2
LED
D3
LED
R10
330
R11
330
R12
330
R19
330
C1
22p
C2
22p
C3
100n
C4
100n
C5
10µ
C6
10µ
C7
100n
C8
100n
C9
100n
C10
100n
C11
100n
C12
100n
C13
100n
C14
100n
C15
100n
C16
100µ/25
C17
100n
C18
100n
C19
100n
C20
10n
C21
10n
C22
10n
S1
S2
S3
S4
S5
L1
L2
IN
OUT
GND
C1+
C1-
C2+
C2-
VCC
V+
V-
T1IN
T2IN
R1OUT
R2OUT
T1OUT
T2OUT
R1IN
R2IN
BR1
BR2
BR3
REMARKS:
R16+R17 are optional
R7 not required if JB8's internal Pull-up (PULLEN in UCR3) is used
/IRQ internally pulled-up (IRQPD in IOCR)
/RST internally pulled-up
R1: Photo-Res. MPY7P/LDR07 5k@10Lux
R2: EPCOS/Siemens K164 (NTC)
R3: Piher PT15NV w/ Btn 16mm
USB08 Evaluation Board
http://hc08web.de/usb08
Designed for Motorola MMD by
Oliver Thamm, MCT Elektronikladen GbR
REV:
1.01
Date: 13.12.2000 18:58:56
Sheet: 1/1