

ISDN USB Device with HFC-S USB

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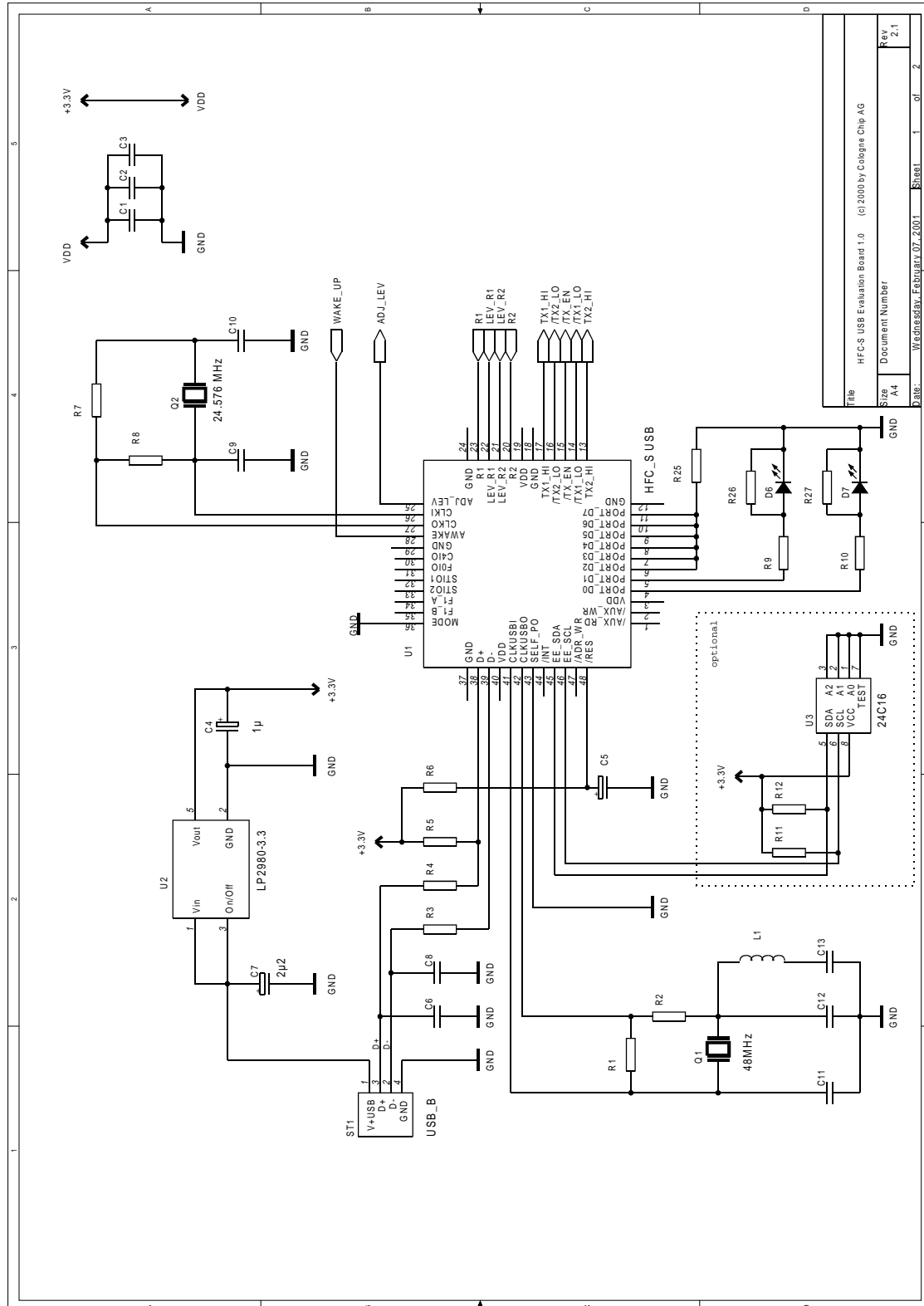
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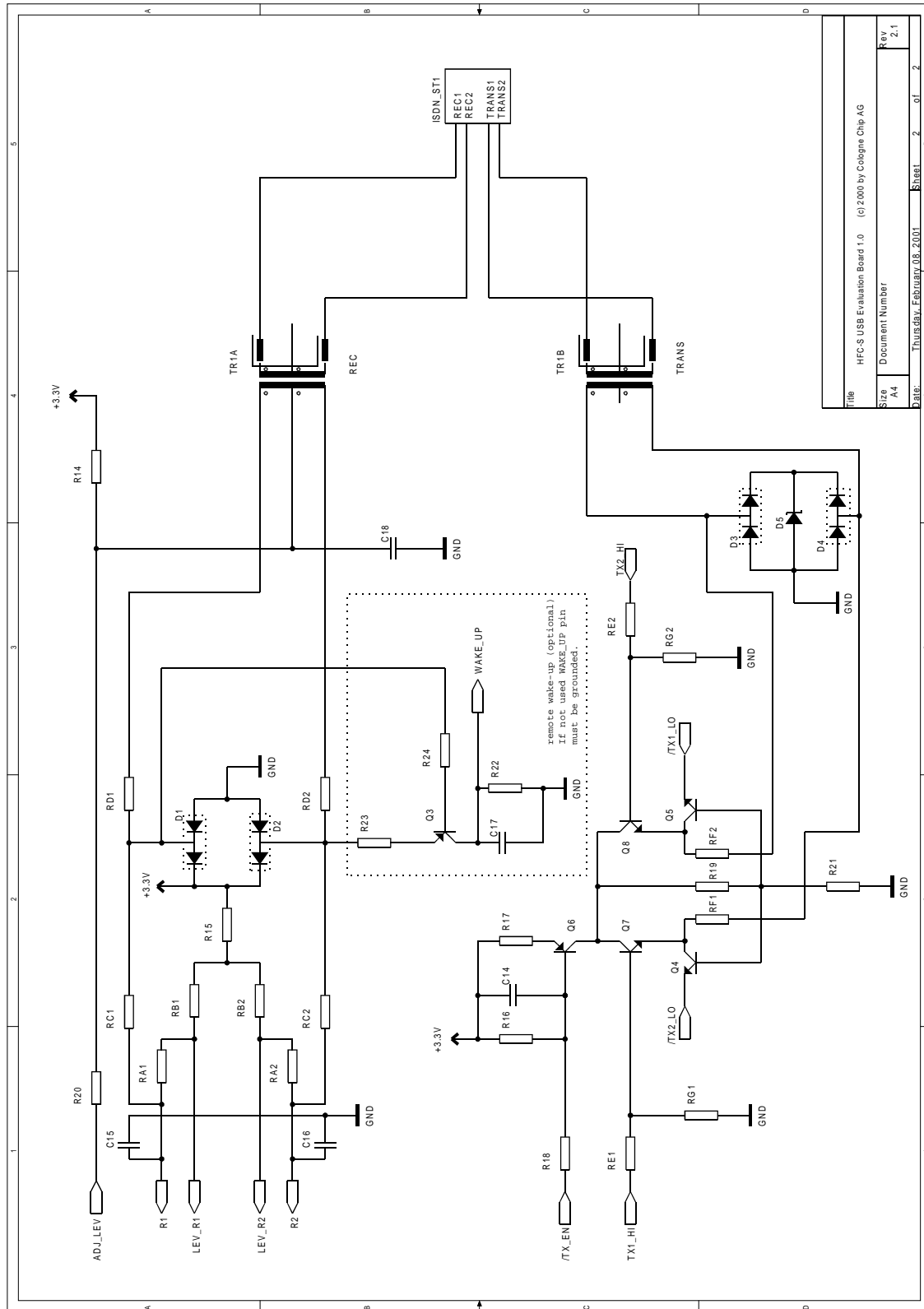
Introduction

Thank you for your interest in our ISDN controllers. The following pages are just an extract of the data sheet of HFC-S USB. In the following we show how an ISDN USB device can be built up with the HFC-S USB. Of course this application note can not give you detailed information about all the functions of HFC-S USB, but it can give you an idea about the usage of the HFC-S USB. If you are looking for a more detailed description please download the data sheet.

1 ISDN USB device sample circuitry with HFC-S USB



Title	HFC-S USB Evaluation Board 1.0	(c) 2000 by Cologne Chip AG
Size	A4	Document Number
Rev	2.1	Sheet 1 of 2



Title	HFC-S USB Evaluation Board 1.0 (c) 2000 by Cologne Chip AG		
Size	A4	2	of 2
Document Number	Rev 2.1		
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Part List

Name	Value	Name	Value
C1	100n	RD2	4k7
C2	100n	RC2	4k7
C3	100n	RE1	560
C5	1 μ	RE2	560
C4	1 μ	RF1	18
C8		RF2	18
C6		RG1	3k9
C7	2 μ 2	RG2	3k9
C9	47p	R1	4M7
C10	47p	R2	0
C11	22p	R3	27
C12	22p	R4	27
C15	22p	R5	1k5
C16	22p	R6	n.b.
C13	4n7	R7	330
C14	470p	R8	1M
C17	100p (optional; for wake-up)	R9	620 (optional; for LED D6)
C18	47n	R10	620 (optional; for LED D7)
D1	BAV99	R11	10k (optional; for EEPROM)
D2	BAV99	R12	10k (optional; for EEPROM)
D3	BAV99	R14	680k
D4	BAV99	R15	1M2
D5	2V7	R16	2k2
D6	LED (optional)	R17	50
D7	LED (optional)	R18	3k3
ISDN_ST1	ISDN Connector	R19	1k8
L1	0,56 μ	R20	3k9
Q1	48MHz	R21	2k2
Q2	24.576 MHz	R22	4M7 (optional; for wake-up)
Q6	BC860C	R23	10k (optional; for wake-up)
Q3	BC860C (optional; for wake-up)	R24	100k (optional; for wake-up)
Q4	BC850C	R25	1M
Q5	BC850C	R26	1M (optional; for LED D6)
Q7	BC850C	R27	1M (optional; for LED D7)
Q8	BC850C	ST1	USB Connector
RA1	100k	TR1	S/T Module
RA2	100k	U1	HFC-S USB
RB1	33k	U2	LP2980-3.3
RB2	33k	U3	24C16 (optional)
RD1	4k7		
RC1	4k7		