1984 Ericsson: Bluetooth-Initiative mit IBM, Intel, Nokia und Toschiba

compiled by Kaneda@WoOOS

1985 Federal Communications Comission (FCC) gibt ISM-Frequenzbänder 900 MHz - 6000 MHz frei
1997 Institute of Electrical and Electronic Engineers (IEEE) Arbeitsgruppe 802
Spezifik.: Media Access Control (MAC) und Physical Layer (PHY)
1999 IEEE802.11, Äquivalent zu Ethernet
2002 Bluetooth Special Interest Group(BSIG): IEEE-Standard 802.15.1-2002
2007 INTEL: Centrino 2 mit integriertem WiMAX-Empfänger

Standart	/Name	Datenrate (bps)	(Bytes/s)	Frequenz	Reichweite	Leistung	Modulation	
DECT				1880-1900 MHz	..300 m	250 mW	GFSK	
WLAN	IEEE 802.2				3-300 m			
(=RLAN)	IEEE 802.11	2 Mbps	250 KB/s	2400-2483 MHz	30 .. 300 m	50 mW	FHSS	
	IEEE 802.11a	54 Mbps	6,7 MB/s	5150~5350 MHz	"weniger"		OFDM?	
	IEEE 802.11a	40 Mbps	5 MB/s	~5600 MHz	"weniger"		OFDM?	1992
	IEEE 802.11b	11 Mbps	~1,3 MB/s	2400-2483 MHz	10 .. 100 m		DSSS,FHSS	
	IEEE 802.11g	54 Mbps	6,7 MB/s	2400-2483 MHz	10 .. 100 m		ERP-PBCC, DSSS-OFDM	
	IEEE 802.11n	108 Mbps	13,5 MB/s	?	?		MIMO	bis zu 540 Mbit/s?!, ab Ende 2006
Bluetooth	Kl. 1	720 Kbps	90 KB/s	2402~2480 MHz	100 m	100 mW	GFSK, FHSS	~1 Mbit/s, PC
(WPAN)	Kl. 2			2402~2480 MHz	50 m	2,5 mW	GFSK, FHSS	~1 Mbit/s, PDA
	Kl. 3			2402~2480 MHz	10 m	1 mW	GFSK, FHSS	~1 Mbit/s, mobile
W-USB		~62 Mbps	~8 MB/s	2400 MHz	50 m			Cypress
W-USB		110.. 480 Mbps	13.. 60 MB/s	3100~10600 MHz	2 .. 10 m			Wireless USB Promoter Group(*1)
UWB		29 / 57 / 86 / 114 Mbps	~3 .. 14 MB/s	~500 MHz	10 .. 20 m	1/10 mW	OFDM / DS	ua. für WPAN, W-USB \ Bandbreite 3.1 to 10.6 GHz.
Wi-MAX		70 Mbps	8,8 MB/s	2400 MHz	7 km / 50 km	(100 mW)		1,75-28MHz
				5000 MHz		(200 mW)		"um die 100 Mbit/s"
				3500 MHz	liz.			Konkurrent zu UMTS²
W-DSL		1 Mbps	125 KB/s					SelmCom vs. Telekom
HiSwan				5150-5350 MHz				
GSM Telef.	GSM-CSD (normal)	9,6 Kbps	1,2 KB/s	~900 / ~1800 MHz			GMSK	manche nutzen UMTS
GSM Telef.	HSCSD	28,8 Kbps	3,6 KB/s	~900 / ~1800 MHz			GMSK	manche nutzen UMTS
GSM Telef.	GPRS	115,0 Kbps	~14,4 KB/s	~900 / ~1800 MHz			GMSK	Packet, reallife: 50 Kbps=6 KB/s
GSM Telef.	EDGE	384,0 Kbps	48,0 KB/s	~900 / ~1800 MHz	Enhanced Data Rates for Global Evolution		8-PSK	Packet, reallife: 115 Kbps=14 KB/s
UMTS	FDD	115 Kbps	~14 KB/s	1900~1920 MHz			HSCSD	QPSK, 384 Kbps=48 KB/s
UMTS	TDD	115 Kbps	~14 KB/s	2010~2025 MHz			HSCSD	QPSK, 384 Kbps=48 KB/s
GPRS	lt. umtsworld.com	9.. 171 Kbps	1.. 21 KB/s	824~849 MHz	liz.			CS1 .. CS4
GPRS	lt. danncohen.com	~115 Kbps	~14 KB/s	1850~1910 MHz	liz.			General Packet Radio Service

Ethernet		10 Mbps	1,2 MB/s		
Ethernet		100 Mbps	12,5 MB/s		
ATA	PI0 Mode 0	~3 Mbps	416 KB/s		
Ultra DMA	HD100	100 Mbps	12,5 MB/s		
IDE	DMA33	264 Mbps	33 MB/s		
IDE	DMA66	528 Mbps	66 MB/s		
ATA		160..800 Mpbs	20..100 MB/s		HD etc
ATA	Gen1	1200 Mbps	150 MB/s		
ATA	Gen2	2400 Mbps	300 MB/s		
ATA	Gen3	4800 Mbps	600 MB/s		
PCMCIA	16 bit byte/word	80 / 160 Mbps	10 / 20 MB/s		
PCMCIA	32 bit byte	264 Mbps	33 MB/s		
PCMCIA	32 bit word	528 Mbps	66 MB/s		
PCMCIA	32 bit dword	1056 Mbps	132 MB/s		
COM		115 Kbps	14,4 KB/s	100 m	0,12 MByte/s
LPT		115 Kbps	14,4 KB/s	5 m	0,12 MByte/s
Modem		14,4 Kbps	1,8 KB/s		
Modem		28,8 Kbps	3,6 KB/s		
Modem		56 Kbps	7 KB/s		
ISDN		64 Kbps	8 KB/s		
T-DSL	(Telekom)	1ooo Kbps	125 KB/s		S-DSL?
ADSL	upstream	800 kbps	100 KB/s		
ADSL	downstream	4ooo Kbps	500 KB/s		
USB 1.0		1500 Kbps	187 KB/s	5 m	LowSpeed: 800 Byte/s
USB 1.1	Full-Speed	12ooo Kbps	1500 KB/s		Full Speed bis zu 1 MByte/s
USB 2.0		~60ooo Kbps	~7,5 MB/s	5 m	
USB 2.0	High Speed	480ooo Kbps	60 MB/s		Hostcontroller max: 30 MByte/s
Firewire		400 Mbps	50 MB/s	4,5 m	
SCSI	(SCSI 1)	40 Mbps	5 MB/s	6 m	
Fast SCSI	(SCSI 2)	80 Mbps	10 MB/s	3 m	
Ultra SCSI		160 Mbps	20 MB/s	1,5 m	8 bit, 20 Mhz
Ultra2 SCSI		320 Mbps	40 MB/s	1,5 m	8 bit, 40 Mhz
Wide Ultra2 SCSI		640 Mbps	80 MB/s	12 m	16 bit, 40 Mhz
Ultra 3 Wide SCSI		1,28 Gbps	160 MB/s	12 m	16 bit, 40 Mhz, Fast 80

Bitrate (zb bps = bits/s) : 1 Mbit/s = 1 Mbps = 128 KB/s

1KB = 1000 Byte = 8000 bit = 8 kbit

Byte/s = bit/8 pro Sek.

k= Faktor: 1000

K= Faktor: 1024

768 kbit/s (768 Kilobit pro Sekunde, das heißt 96 Kilobyte pro Sekunde)

(*1): Intel, Microsoft, NEC, Hewlett Packard und Philips.

alle Angaben OHNE Gewähr !!!!