**Junior Computer Memory Map**

RAM $0000 - $EFFF

64 kRAM-Karte $0000 - $BFFF

8 kRAM/EPROM-Karte $C000 - $DFFF & $F000 - $F3FF

1k 2114 CPU-Karte $E000 - $E3FF

1k 2114 Interfacekarte $E400 - $E7FF

2K 6116 Interfacekarte $E800 - $EFFF

8 kRAM/EPROM-Karte $F000 - $F3FF

Page $00

DMAV = $FE ;DMA-VECTOR

DIRBFV = $FC ;DIRBF-VECTOR

BIOSP = $FA ;BIOS-POINTER

DPHV = $F8 ;DPH-VECTOR

FCB1V = $F6 ;FCB1-VECTOR

FCB2V = $F4 ;FCB2-VECTOR

STATUS = $F3 ;STATUS-FLAG

JPBDOS = $F0 ;JMP BDOS

TEMP = $EF ;TEMPORARY BUFFER

TEMPA = $EE ;AKKU BUFFER

INBUFV = $EC ;INPUT BUFFER VECTOR

BDOS1 = $EA ;BDOS-VECTOR 1

TEMPX = $E9 ;X Buffer

SECBUF = $E6 ;sector buffer for BIOS

CMDMAX = $E3

CMDVEC = $E2

CCPV = $E0 ;CCP VECTOR

Page $01

Stack

$0200 - $D7FF TPA 53 kByte

$D800 - $DBFF CCP

$DC00 - $E3FF BDOS

$E400 - $EFFF BIOS

Disk R/W Buffer $F000 - $F3FF (DMA, DIRBUF, SCSIBUF)

;VIA ADDRESSES $F400 - $F4FF

DRA = $F401

DDRA = $F403

PCR = $F40C

IFR = $F40D

IER = $F40E

;UDC-CONTROLLER ADDRESSES $F500 - $F5FF

UDC = $F500

SCSI\_D = UDC ;SCSI Data Port

SCSI\_ST = UDC+$10 ;SCSI Status Port

SCSI\_SE = UDC+$20 ;SCSI Select Register

SCSI\_R = UDC+$30 ;SCSI Reset Port

FDSEL = UDC+$40 ;MOTOR/SELECT DRIVE LATCH

FDSCR = UDC+$50 ;READ STATUS, WRITE COMMAND

FDTRG = UDC+$51 ;R/W TRACK REGISTER

FDSRG = UDC+$52 ;R/W SECTOR REGISTER

FDDAR = UDC+$53 ;R/W DATA REGISTER

FLSTAT = UDC+$60 ;IRQ --> BIT 7, DRQ --> BIT 6

;6532 ADDRESSES $F600 - $F7FF

SCRATCH = $F600

SPEED = SCRATCH+$4A ;SPEED flag b7=1 38400 Bd; b6=1 19200 Bd

I2CDEV = SCRATCH+$4B ;I2C device nr 7 Bit

ID = SCRATCH+$4C ;I2C memory data set ID

PNT16 = SCRATCH+$4E ;I2C 16 bit register

ADR = SCRATCH+$50 ;I2C adress pointer

ENDADR = SCRATCH+$52 ;I2C end adress

STPRATE = SCRATCH+$54 ;Steprate $00: 6ms, $01: 12 ms; $54..$57

BITTIME = SCRATCH+$58 ;bit delay for COM

HBTTIME = SCRATCH+$59 ;half bit delay for COM

COMBUF = SCRATCH+$5A ;6 Byte SCSI Command Buffer

MODE = SCRATCH+$60 ;Mode Flag and Buffer for FD\_ST

XBUF = SCRATCH+$63

CHARBUF = SCRATCH+$64

CHR = SCRATCH+$65

SCSI\_B = SCRATCH+$66 ;SCSI BLOCK BUFFER

SCSI\_BL = SCRATCH+$68 ;SCSI BLOCK BUFFER LOW

SCSI\_BH = SCRATCH+$69 ;SCSI BLOCK BUFFER HIGH

SCSI\_F = SCRATCH+$6A ;SCSI FLAG

DRIVE = SCRATCH+$6B

TRACK = SCRATCH+$6C ;TRACK BUFFER FOR ROM-BIOS

SECTOR = SCRATCH+$6D ;SECTOR BUFFER FOR ROM-BIOS

SIDEMS = SCRATCH+$6E ;SIDE MASK SIDE 1 = $02

RETRY = SCRATCH+$6F ;RETRY COUNTER

ERRCOD = SCRATCH+$70 ;ERROR CODE

TIMER0 = SCRATCH+$71 ;SYSTEM TIMER

TIMER1 = SCRATCH+$72 ;8 BIT USER TIMER

TIMER2 = SCRATCH+$73 ;16 BIT USER TIMER

ABUF = SCRATCH+$75 ;ACCU BUFFER FOR IRQ ROUTINE

SECS = SCRATCH+$76 ;BIOS Sector Buffer

VECTORS = SCRATCH+$78

UIRQV = VECTORS

NMIV = VECTORS+2

BREAKV = VECTORS+4

IRQV = VECTORS+6

PAD = $F680

PADD = $F681

PBD = $F682

PBDD = $F683

RIOFLAG = $F6D5 ;RIOT FLAG REGISTER

TI1024K = $F6FF ;TIMER 1024K IRQ ENABLE

$F800 - $FFFF System EPROM

;ROM-BIOS ROUTINES

ROM\_BOOT = $F800

ROM\_CONST = $F806

ROM\_CONIN = $F809

ROM\_CONOUT = $F80C

SETSEC = $F821 ;BIOS ROUTINES OF MONITOR EPROM

SETTRK = $F81E

READ = $F824

PRTCHR = $F80C

MONITOR = $F830

Sonderhardware

EPROM Prommer $B000 - $BFFF (blocks RAM on 64K-RAM Karte via BUS 17c)