Superboard II Quick Reference For the Briel Computers Superboard /// Jeff Tranter < tranter@pobox.com > 29-Jan-2015

General Specifications		
CPU	65C02	
Clock Speed	1 MHz	
RAM	32KB	
ROM	10KB	
Keyboard	Integral 53-key	
Video	Composite	
Power Input	USB 5V host or power supply 1000mA or more	
Serial Port Settings	9600 bps 8N1, no handshaking, no flow control	

Memory Map

Address Range	Comments
\$0000 - \$00FF	Zero page RAM
\$0100 - \$01FF	Stack RAM
\$0000 - \$7FFF	RAM (32K Superboard ///)
\$A000 - \$BFFF	ROM (BASIC)
\$D085 - \$D39D	Video memory (25x25 mode)
\$D080 - \$D3FF	Video memory (32x28 mode)
\$DF00	Keyboard
\$FF00-\$F001	6850 ACIA
\$F800-\$FFFF	ROM (OSI routines and monitor)

Useful Addresses

Description	Hex	Decimal
NMI address	\$0100	256
IRQ address	\$01C0	448
Keyboard (write row, read column)	\$DF00	57088
6850 ACIA status/control register	\$F000	61440
6850 ACIA data register	\$F001	61441
Reset address	\$FF00	65280
NMI vector	\$FFFA,\$FFFC	65530,65531
Reset vector	\$FFFC,\$FFFD	65532,65533
IRQ vector	\$FFFE,\$FFFF	65534,65535

ROM Monitor Commands

Display: AAAA DD

In address mode, enter 4 character hex address. In data mode, enter 2 character hex data.

- "/" enters data mode.
- "." enters address mode.
- <Return> (in data mode) advances to next address.
- "L" (in address mode) loads from cassette tape/serial port.
- "G" (in address mode) starts execution from current address mode.

Microsoft BASIC

Commands: CONT, LIST, NEW, NULL, RUN

Statements: CLEAR, DATA, DEF, DIM, END, FN, FOR, GOSUB, GOTO, IF, INPUT, LET, LOAD, NEXT, NOT, NULL, ON, OR, POKE, PRINT, READ, REM, RESTORE, RETURN, SAVE, STEP, STOP, THEN, TO, WAIT, ?

Functions: ABS(), ASC(), ATN(), CHR\$(), COS(), EXP(), FRE(), INT(), LEFT\$(), LEN(), LOG(), MID\$(), PEEK(), POS(), RIGHT\$(), RND(), SGN(), SIN(), SPC(), SQR(), STR\$(), TAB(), TAN(), USR(), VAL()

Operators: +, -, *, /, ^, NOT, AND, OR, =, <, >, <>, >=, <=

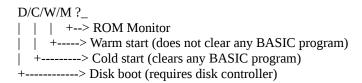
Editing:

<Shift>+O Erase last character <Shift>+P Erase current line

<Control>+C Interrupt running program or LIST command.

<Control>+O Suspend output until ano

Boot prompt:



Default video is 25 chars x 25 lines. Power on with BREAK key down to get 32 chars x 28 lines.

Serial Port protocol: 9600 bps, 8N1, no flow control or hardware handshaking. For BASIC, use 50ms char delay, 200ms line delay.