

SBC54 Power Requirements

DATE: June 17, 1998
TO: SBC54 Users
FROM: Technical Staff
RE:
CC:

This applications note details the power requirements for the SBC54 single board computer.

Three separate measurements were made of actual operating current: the first measurement was made while the processor was running in IDLE3 low power mode with the processor input clock active and all onboard peripherals powered up; the second measurement was made in normal operating mode while executing the HELLO.OUT example program from on-chip memory, again with all external peripherals active; the third measurement was made running the EXTERNAL.OUT example program from external RAM with all peripherals powered up. The following tables give current measurements for the three power supplies used by the SBC54 under these three tests.

Supply	Current (mA)
+5V	130
+15V	46
-15V	10

Figure 1: IDLE3 Mode Power Requirements

Supply	Current (mA)
+5V	175
+15V	60
-15V	10

Figure 2: Power Requirements Running HELLO.OUT

Supply	Current (mA)
+5V	175
+15V	100
-15V	10

Figure 3: Power Requirements Running EXTERNAL.OUT

Please note these measurements do not include the requirements of OMNIBUS modules. Power requirements will vary depending on the installed module and software usage.