

Avocent® Matrix Switch, Avocent® Matrix Transmitter and Avocent® Matrix Receiver Typical Power Draw



Problem

Due to the various configuration sizes it is important to know how to calculate the power consumption of a Matrix Direct Connect environment.

Solution

Use the following information to calculate the power consumption.

Matrix switches

20-port with all ports idle	51.9 W
20-port with 20 transmitters (10 W each)	251.9 W
20-port PSU rating	350 W
32-port with all ports idle	75.7 W
32-port with 32 transmitters (10 W each)	395.7 W
32-port PSU rating	2 times(*)600 W

Matrix transmitter

7.5 W each (powered by PoE)

Matrix receiver (switched mode with USB peripherals)

Keyboard/mouse	7.88 W
Keyboard /mouse + two 500 mA USB loads	13.83 W
Keyboard /mouse + three 500 mA USB loads	17 W

Matrix receiver (extended mode with USB and transmitter)

Keyboard /mouse + transmitter	23.32 W
Keyboard /mouse + two 500 mA loads + transmitter	29.57 W
Keyboard /mouse + three 500 mA loads + transmitter	32.32 W

Note: Calculations are based on experimental and theoretical numbers (running full data bandwidth uses more power).

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