

Two product case studies

Sleep mode

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Typical Laserjet MFD- Small Work Group

Sleep mode power = **1.085W**



Part	Fraction of Sleep Power consumption	Power (mW)
Off power (wakes on power button press only)	5.81%	63
Base system power (clocks, CPU, DRAM, FLASH, analog (voltage regulators, etc.)	66.27%	719
Display (wake on touch/ button press)	4.42%	48
FAX (wake on ring)	0.65%	7
USB PHY (wake on device port)	5.71%	62
Gbit EEE (Energy Efficient Ethernet) Link	17.14%	186
Total Power (mW)		1085

These base system components are required for system state retention and to enable the wake sources below.

Typical Desktop PC- Tower form factor

Sleep mode (S3 with Wake on LAN enabled) = 1.8W

Part	Fraction of Power consumption in S3 - Tower	Power (mW)
Memory subsystem portion of the processor (CPU)	15.00%	270
DRAM modules (in lower power self-refresh state)		
Chipset subsystem network (LAN) and USB portion	20.00%	360
LAN or Wireless LAN circuits to allow wake from LAN or WLAN	50.00%	900
USB ports to allow wake from USB keyboard or USB mouse (PS/2 ports also if present)	15.00%	270

