

## AM437x Power Consumption Summary

### Low Power Modes

	Typical (mW)	Max (mW)
DeepSleep	4.00	4.50

### Active Modes

Application	DDR3+VTT (mW)	LPDDR2 (mW)
OS Idle w Matrix Qt GUI	698	495
Dhrystone	915	703
Whetstone	888	653
DDR Bandwidth	844	625
AAC Decode	734	489
H.264 Decode	971	664
3D Chameleon Man	1059	695
Camera	930	566

### MPU DVFS

#### Total SoC Power

MPU OPP	MPU Freq (MHz)	DDR3+VTT		LPDDR2	
		Linux Idle (mW)	Dhrystone (mW)	Linux Idle (mW)	Dhrystone (mW)
OPP50	300	504	597	336	419
OPP100	600	557	785	385	607
OPP120	720	588	924	422	742
Turbo	800	621	1033	446	833
Nitro	1000	671	1252	504	1038

#### VDD\_MPU Power

MPU OPP	MPU Freq (MHz)	DDR3+VTT		LPDDR2	
		Linux Idle (mW)	Dhrystone (mW)	Linux Idle (mW)	Dhrystone (mW)
OPP50	300	31	118	29	110
OPP100	600	82	313	76	294
OPP120	720	117	449	109	423
Turbo	800	143	550	134	516
Nitro	1000	201	766	188	714

### MPU DFS

#### VDD\_MPU Power

MPU_MPU (V)	MPU Freq (MHz)	DDR3+VTT		LPDDR2	
		Linux Idle (mW)	Dhrystone (mW)	Linux Idle (mW)	Dhrystone (mW)
1.1	50	10	30	10	28
1.1	100	17	57	16	53
1.1	200	31	110	28	102
1.1	300	43	163	40	151
1.1	400	56	215	52	199
1.1	500	69	266	64	247
1.1	600	82	317	76	294

### CORE OPP

#### ePOS EVM (LPDDR2)

#### Total SoC Power

CORE OPP	No-OS Idle (mW)	LCD Test (mW)	Camera Test (mW)
OPP50	180	230	304
OPP100	288	375	472

#### VDD\_CORE Power

CORE OPP	No-OS Idle (mW)	LCD Test (mW)	Camera Test (mW)
OPP50	74	94	97
OPP100	174	225	233

### GP EVM (DDR3+VTT)

#### Total SoC Power

CORE OPP	No-OS Idle (mW)	LCD Test (mW)	Camera Test (mW)
OPP100	570	686	767

#### VDD\_CORE Power

CORE OPP	No-OS Idle (mW)	LCD Test (mW)	Camera Test (mW)
OPP100	277	342	351