



Grandstream Networks, Inc.

Analog Telephone Adapters

Power Consumption Technical Bulletin



DOCUMENT PURPOSE

This document is a technical bulletin describing power consumption details for HT502, HT503, HT701, HT702, HT704, HT801, HT802, HT812, HT814 and HT818.

The HT502, HT503, HT701, HT702 and HT812 can be powered via:

- Universal power supply (Input AC 100-240V 50/60Hz; Output 12VDC, 0.5A).

The HT801 and HT802 can be powered via:

- Universal power supply (Micro-USB connection) (Input AC 100-240V 50/60Hz; Output 5VDC, 1A).

The HT704 and HT814 can be powered via:

- Universal power supply (Input AC 100-240V 50/60Hz; Output 12VDC, 1A).

The HT818 can be powered via:

- Universal power supply (Input AC 100-240V 50/60Hz; Output 12VDC, 1.5A).

TEST CONDITION TERMINOLOGY

The following test condition terminology was used in table 1.

▪ Standby State

- The UUT (Unit Under Test) has completed the boot-up process.
- The SIP application was running PCMA codec with SRTP.
- No established call and no incoming ring.

▪ Operating State

- The UUT is set up as described in the Idle State.
- The maximum number of calls are established for each UUT.
- The Phone connected to UUT FXS port is working at handsfree mode and set to maximum volume.

▪ Max Power

- 3RENS loaded on each FXS port of UUT and ring established for all HTxxx except HT701.
- 5RENS loaded on FXS port of HT701 and ring established.



POWER DISSIPATION

Table 1: Power Dissipation and Advertisement

Product	Version	Power Adapter Model			
		Standby	Operating	Max Power	
		Power (W)	Power (W)	3RENS Loaded	Power (W)
HT502	V2.0	2.26	3.36	Europe	4.43
				America	4.64
HT503		2.74	3.52	Europe	3.82
				America	4.32
HT701	V3.0	1.05	1.73	Europe	4.85
				America	3.95
HT702	V2.0	1.35	2.93	Europe	5.70
				America	6.05
HT704		1.60	4.21	Europe	4.57
				America	9.27
HT801		0.96	1.33	Europe	2.23
				America	2.79
HT802	V1.5	1.58	2.14	America	2.25
				Europe	3.12
HT812	V1.3	2.52	3.11	Europe	3.51
				America	3.82
HT814		2.08	4.00	Europe	3.19
				America	3.76
HT818		2.85	4.96	Europe	9.84
				America	10.36

