

Grandstream Networks, Inc.

FXS&FXO Gateways
Power Consumption



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DOCUMENT PURPOSE

This document is a technical bulletin describing power consumption details for GXW4216, GXW4224, GXW4232 and GXW4248 & GXW4104/GXW4108, and HT841/HT881.

POWER DISSIPATION

Product	Version	Power Adapter Model		
		Standby	Operating	Max Power
		Power (W)	Power (W)	Power (W)
GXW4104		3.58	3.78	3.78
GXW4108		3.91	4.27	4.27

GXW41xx Power Dissipation and Advertisement

Product	Version	PoE Adapter Model			
		Standby	Operating	Max Power	
		Power (W)	Power (W)	3RENs Loaded	Power (W)
HT841	V1.1	2.63	4.13	Europe	/
				America	6.38
HT881		2.97	4.53	Europe	/
				America	6.88

HT8x1 Power Dissipation and Advertisement

Product	Version	Power Adapter Model			
		Standby	Operating	Max Power	
		Power (W)	Power (W)	2RENs Loaded	Power (W)
GXW4216	V1.0A	2.69	15.31	Europe	24.00
				America	26.40

GXW4224	4.00	22.58	Europe	36.79
			America	39.38
GXW4232	4.15	29.59	Europe	43.70
			America	46.02
GXW4248	5.20	45.83	Europe	47.50
			America	50.19

GXW42xx V1 Power Dissipation and Advertisement

Product	Version	Power Adapter Model		
		Idle State	Work State	Power Not to Exceed
		Power (W)	Power (W)	Power (W)
GXW4216	V2_V1.1	7.49	19.33	27.5
GXW4224	V2_V1.1	12.03	21.8	44.52
GXW4232	V2_V1.1	14.96	25.71	56.86
GXW4248	V4.1A	37.28	45.21	92.92

GXW42xx V2 Power Dissipation and Advertisement

Note

- GXW4216/24/32 contain a FAN(MAX current :92mA), and GXW4248 contain two, FAN is shut off in test.
- GXW4216/24/32 and GXW4248 are IP-enabled devices in operation.

TEST CONDITION TERMINOLOGY

○ 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.
- Connect a 600R resistor load for each FXS port of GXW4248 to simulate Off-Hook.
- 2US RENs loaded on each FXS port of UUT and ring established for all GXW4216/24/32v2.
- 1US RENs loaded on each FXS port of UUT and ring established for all GXW4248v2.
- FAN running.

- **Max Power**

- 2RENs loaded on each FXS port of UUT and ring established for all GXW42xx.
- 1RENs loaded on each FXS port of UUT and ring established for all GXW4248.
- Connect a 600R resistor load for each FXS port of GXW4216/24/32/48v2 to simulated Off-Hook.
- FAN running.

Need Support?

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