



# Grandstream Networks, Inc.

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GDS37XX

Power Consumption Technical Bulletin



## DOCUMENT PURPOSE

This document is a technical bulletin describing power consumption details for GDS3710 and GD3705.

## POWER DISSIPATION

Table 1: Power Dissipation and Advertisement

Product	Power Adapter (12VDC)			PoE (48VDC)			Classification (IEEE 802.3af)
	Idle State	Work State	Power Not to Exceed	Idle State	Work State	Power Not to Exceed	
	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	
GDS3710	4.860	7.280	10.940	5.640	8.830	13.110	3
GDS3705	3,815	3,815	9,7	4,893	6,283	11,655	3

## PD POWER CLASSIFICATION

Table 2: PD Power Classification (IEEE 802.3af)

Class	Usage	Max Power Range used by the PD
0	Default	0.44 to 12.95W
1	Optional	0.44 to 3.84W
2	Optional	3.84 to 6.49W
3	Optional	6.49 to 12.95W
4	Optional	12.95 to 25.5W



## TEST CONDITION

The following test condition terminology was used in Table 1.

Item	Test Specification	Idle State	Work State	Power Not to Exceed
1	<b>Video Stream</b>	1(1080p)	1(1080p)	1(1080p)
2	<b>Relay (J8003/J8004)</b>	OFF	ON	ON
3	<b>Ethernet</b>	IP ping	IP ping	IP ping
4	<b>Speaker volume</b>	0 (0%)	Default	5 (100%)
5	<b>Video call</b>	NO	YES	YES
6	<b>+5VD_WG</b>	ON, Load=10R	ON, Load=10R	ON, Load=10R
7	<b>RFID card read</b>	NO	NO	YES
8	<b>Touch TP key</b>	NO	NO	YES
9	<b>LED back light</b>	0 (0%)	Default	FULL (100%)
10	<b>Heating</b>	NO	NO	YES
Remark	1. Video Stream: 1(1080p) is the highest resolution. 2. Speaker volume 5: is the max volume (100%). contain Video call sound, RFID card read sound and touch TP key sound.			

