Grandstream Networks, Inc.

GDS3710 Technical Bulletin

Power Consumption

DOCUMENT PURPOSE

This document is a technical bulletin describing power consumption details for GDS3710 Hemispheric HD IP Video Door System.

GDS3710 can be powered via:

- Universal power supply (12VDC, 1A).
- PoE: IEEE802.3af (Class 3)

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

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	Reserved for Future Use

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TEST CONDITION

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