

Grandstream Networks, Inc.

GDS372x - Power Consumption



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Document purpose

This technical bulletin provides power-consumption information for the GDS3727 and GDS3725.

Note: All power values in this article are measured in watts (W).

Power dissipation

Product	DC Input Model (12 VDC)			PoE Model						Advertise d Class (IEEE 802.3at)
	Idle State	Work State	Maximum Consump tion	Idle State		Work State		Maximum Consumption		
				802.3af	802.3at	802.3af	802.3at	802.3af	802.3at	
GDS3727	2.300	5.200	10.500	N/A	3.500	N/A	7.200	N/A	11.500	0
GDS3725	2.113	3.217	6.616	N/A	3.408	N/A	4.680	N/A	9.076	0

Power consumption and advertised PoE class

PD power classification

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

PD power classification (IEEE 802.3at)

Test condition terminology

The following test-condition terminology was used for the power-dissipation measurements.

Test Specification	Idle State	Work State	Maximum Power Consumption
Video Stream	1 (1080p)	1 (1080p)	1 (1080p)
Relay (J8003/J8004)	Off	On	On
Ethernet	IP ping	IP ping	IP ping
Speaker Volume	0 (0%)	Default	5 (100%)
Video Call	No	Yes	Yes
+5VD_WG	On, Load=10R	On, Load=10R	On, Load=10R
RFID Card Read	No	No	Yes
Touch TP Key	No	No	Yes
LED Backlight	0 (0%)	Default	Full (100%)

Heating	No	No	Yes
Remark	Video stream 1 (1080p) is the highest resolution.	-	Speaker volume 5 includes video call sound, RFID card read sound, and touch TP key sound.

Test condition terminology