Grandstream Networks, Inc.

GXP21xx Technical Bulletin - Power Consumption

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Power Dissipation and Advertisement

Product	Power Adapater (12 VDC)			POE (48 VDC)			Class Advertisement (IEEE 802.3af)
	Idle State	Work State	Max Power Consumption	Idle State	Work State	Max Power Consumption	
	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	Power (W)	
GXP2130	2.76	3.27	3.60	3.16	3.59	4.59	2
GXP2135	2.73	3.12	3.26	3.11	3.33	4.00	2
GXP2140	2.28	3.66	7.90	2.64	3.89	9.60	3
GXP2140+4EXT*	N/A	N/A	9.56	N/A	N/A	12.58	3
GXP2160	2.98	4.04	8.78	3.19	4.47	10.25	3
GXP2170	2.71	3.55	7.98	3.15	3.88	9.30	0
GXP2170+4EXT*	N/A	N/A	9.46	N/A	N/A	12.66	0

Table 1: Power Dissipation and Advertisement

- EXT* is GXP2200EXT Extension Module.
- GXP21XX+4EXT* tested with connecting USB port loads=0.35A.
- Class Advertisement Refer to Table 2 for IEEE 802.3af Classification at PD.

PD Power Classification

Class	Usage	Max Power Range used by the PD (Phone)
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	Not Allowed	Reserved for future use (for example: IEEE802.3at)

Table 2: PD Power Classification (IEEE 802.3af)

Test Condition Terminology

The following test condition terminology was used in Table 1.

- **Idle State**
- The phone has completed the boot-up process.
- The SIP application was running PCMA codec with SRTP.
- The idle screen was shown on the LCD.
- LCD Backlight (Normal brightness).
- There was no call state established.
- **Work State**
- The phone was setup as described in the Idle State.
- The maximum number of calls were established for each Unit Under Test (UUT).
- The Handsfree mode was activated for each UUT and was set to maximum volume.
- The LCD displayed at the Diagnostic screen during the test.
- **Power Not Exceed**
- +nEXT means connect to n Extension Module(s), n=1, 2, 3, 4.
- EXT work condition: All indicator red LEDs light on
- External USB device in Max Power.
- Ring state or Called state.