

IPPBX Technical Bulletin

Power Consumption of IPPBX Series

1. Power Dissipation

Table 1: Power Dissipation and Advertisement

ITEM	Product	Power Adapter (12VDC)				POE (48VDC)				Class Advertisement (IEEE 802.3af)
		Idle State	Work State	Power Not to Exceed		Idle State	Work State	Power Not to Exceed		
		Power(W)	Power(W)	FXS Port Loaded	Power(W)	Power(W)	Power(W)	FXS Port Loaded	Power(W)	
1	GXE5024	4.20	6.22	Europe	6.72	5.64	7.68	Europe	8.11	0
				America	8.01			America	10.11	0
2	GXE5028	4.95	6.75	Europe	7.60	6.32	8.11	Europe	8.21	0
				America	8.68			America	9.94	0
3	UCM6102/4	5.33	9.57	America	9.57	7.38	11.66	America	11.66	4
4	UCM6108/16	6.06	10.31	America	10.31	7.6	12.18	America	12.18	4
5	UCM6510	9.88	17.84	America	17.84	9.35	21.12	America	21.12	4

2. PD Power Classification

Table 2: PD Power Classification (IEEE 802.3af)

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	Optional	12.95 to 25.5W
5	Not Allowed	Reserved for future use (for example: IEEE802.3af)

3. Test Condition Terminology

The following test condition terminology is used in Table 1.

• **Idle State**

- The IPPBX has completed the boot-up process
- The SIP application is running PCMA codec with SRTP
- No call state established or incoming ring

• **Work State**

- The IPPBX is setup as described in the Idle State.
- The maximum number of calls are established for each Unit Under Test (UUT)
- USB port loaded at 200mA

• **Power Not to Exceed**

- 3RENs loaded on each FXS port of UUT and ring established (GXE50XX)
- 1REN loaded on each FXS port of UUT and ring established (UCM61XX)
- USB port loaded at 500mA

