

IP Phone Technical Bulletin

Power Consumption of BudgeTone and Enterprise IP Phones Series

1. Power Dissipation

Table 1: Power Dissipation and Advertisement

| | | Powe | r Adapter(5.12 | 2VDC) | P | OE (46.9VDC | ;) | |
|------|---------------------------|------------|----------------|---------------------|------------|-------------|---------------------|--|
| ITEM | Product | Idle State | Work State | Power Not to Exceed | Idle State | Work State | Power Not to Exceed | Class Advertisement (IEEE 802.3af) |
| | | Power(W) | Power(W) | Power(W) | Power(W) | Power(W) | Power(W) | (|
| 1 | BT200 | 2.450 | 2.780 | 2.880 | N/A | N/A | N/A | N/A |
| 2 | GXP280 | 1.950 | 2.038 | 2.253 | N/A | N/A | N/A | N/A |
| 3 | GXP285 | 1.950 | 2.038 | 2.253 | 2.592 | 2.736 | 3.200 | 1 |
| 4 | GXP1200 | 2.430 | 2.890 | 2.890 | 4.890 | 5.460 | 5.460 | 0 |
| 5 | GXP2000 | 2.420 | 3.140 | 3.190 | 5.080 | 5.890 | 5.940 | 0 |
| 6 | GXP2000+1EXT ^A | 3.010 | 3.640 | 3.680 | 5.700 | 6.510 | 6.560 | 0 |
| 7 | GXP2000+2EXT ^A | 3.470 | 4.130 | 4.140 | 6.320 | 7.140 | 7.230 | 0 |
| 8 | GXP2010 | 2.490 | 2.840 | 3.110 | 3.450 | 3.990 | 4.180 | 0 |
| 9 | GXP2010+1EXT ^B | 2.920 | 3.400 | 3.640 | 3.840 | 4.520 | 4.670 | 0 |
| 10 | GXP2010+2EXT ^B | 3.400 | 3.900 | 4.190 | 4.470 | 5.010 | 5.150 | 0 |
| 11 | GXP2020 | 2.950 | 3.750 | 3.820 | 3.850 | 4.760 | 4.960 | 0 |
| 12 | GXP2020+1EXT ^B | 3.400 | 4.270 | 4.370 | 4.530 | 5.250 | 5.440 | 0 |
| 13 | GXP2020+2EXT ^B | 3.930 | 4.830 | 4.920 | 4.910 | 5.880 | 5.980 | 0 |
| 14 | GXP2120 | 1.413 | 1.567 | 2.509 | 1.923 | 2.157 | 3.189 | 2 |
| 15 | GXP2120+1EXT ^B | 1.859 | 2.043 | 3.256 | 2.439 | 2.720 | 4.174 | 2 |
| 16 | GXP2120+2EXT ^B | 2.355 | 2.529 | 3.994 | 3.095 | 3.424 | 5.159 | 2 |
| 17 | GXP2110 | 1.423 | 1.556 | 2.452 | 1.970 | 2.111 | 3.236 | 2 |
| 18 | GXP2110+1EXT ^B | 1.869 | 2.007 | 3.190 | 2.486 | 2.673 | 4.174 | 2 |
| 19 | GXP2110+2EXT ^B | 2.345 | 2.473 | 3.917 | 3.095 | 3.330 | 5.206 | 2 |
| 20 | GXP1100 | 0.999 | 1.267 | 1.590 | N/A | N/A | N/A | N/A |
| 21 | GXP1105 | 0.999 | 1.267 | 1.590 | 1.459 | 1.816 | 2.032 | 2 |
| 22 | GXP1160 | 1.791 | 2.081 | 3.129 | N/A | N/A | N/A | N/A |
| 23 | GXP1165 | 1.791 | 2.081 | 3.129 | 2.544 | 2.986 | 4.416 | 2 |
| 24 | GXP1400 | 1.561 | 1.869 | 2.107 | N/A | N/A | N/A | N/A |
| 25 | GXP1405 | 1.561 | 1.869 | 2.107 | 2.260 | 2.672 | 3.022 | 2 |
| 26 | GXP1450 | 1.834 | 2.053 | 2.391 | 2.668 | 2.910 | 3.686 | 2 |
| 27 | GXP2100 | 2.036 | 2.360 | 3.219 | 2.750 | 3.730 | 4.300 | 2 |
| 28 | GXP2124 | 1.193 | 1.933 | 2.822 | 1.989 | 3.138 | 3.918 | 2 |

| | | Powe | er Adapter(12 | VDC) | P | OE (46.9VDC | :) | Class |
|------|---------------------------|------------|---------------|---------------------|------------|-------------|---------------------|---------------------------------|
| ITEM | Product | Idle State | Work State | Power Not to Exceed | Idle State | Work State | Power Not to Exceed | Advertisement (IEEE 802.3af) |
| | | Power(W) | Power(W) | Power(W) | Power(W) | Power(W) | Power(W) | (ILLL 002.3al) |
| 1 | GXP2200 | 3.678 | 3.920 | 12.382 | 4.511 | 4.705 | 14.599 | 0 |
| 2 | GXP2200+1EXT ^C | | 4.918 | 9.135 | | 5.855 | 10.946 | 0 |
| 3 | GXP2200+2EXT ^C | | 5.916 | 10.133 | | 7.004 | 12.095 | 0 |
| 4 | GXP2200+3EXT ^C | | 6.914 | 11.131 | | 8.153 | 13.245 | 0 |
| 5 | GXP2200+4EXT ^C | | 7.912 | 12.129 | | 9.303 | 14.394 | 0 |
| 6 | GXP2130 | 1.870 | 1.955 | 2.086 | 1.970 | 2.296 | 2.408 | 2 |
| 7 | GXP2140 | 1.442 | 2.161 | 5.490 | 2.290 | 2.626 | 6.789 | 3 |
| 8 | GXP2140+1EXT ^C | 2.660 | 3.520 | 6.619 | 3.420 | 4.430 | 8.027 | 3 |
| 9 | GXP2140+2EXT ^C | 3.560 | 4.420 | 7.541 | 4.590 | 5.390 | 9.260 | 3 |
| 10 | GXP2140+3EXT ^C | 4.510 | 5.330 | 8.754 | 5.650 | 6.340 | 10.419 | 3 |
| 11 | GXP2140+4EXT ^C | 5.470 | 6.200 | 9.674 | 6.710 | 7.610 | 11.802 | 3 |
| 12 | GXP2160 | 1.454 | 2.171 | 6.003 | 2.400 | 2.814 | 7.487 | 3 |

Note: 1).EXT^A is GXP2000EXT Extension Module.

2).EXT^B is GXP2010/GXP2020EXT Extension Module.

3).EXT^C is GXP2200EXT Extension Module.

4). Class Advertisement Refer to Table 2 for IEEE 802.3af Classification at PD.

5). The Power of EXTA and EXTB is supplied by GXP2010/GXP2020 directly.

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 | 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 phone has completed the boot-up process.
- The SIP application is running PCMA codec with SRTP.
- The idle screen is shown on the LCD.
- LCD Backlight (Normal brightness).

Work State

- The phone is setup as described in the Idle State.
- The maximum number of calls are established for each Unit Under Test (UUT).
- The Handsfree mode is activated for each UUT and set to maximum volume.
- The LCD displayed at the Diagnostic screen during the test.
- BT200/GXP280 are using handfree mode.

• Power Not to Exceed

- +nEXT means connect to n Extension Module(s), n=1, 2, 3, 4.
- EXT work condition: All Indicator LEDs are lighting up.
- External USB device in Max Power.
- EXT work condition: All Indicator LEDs are lighting.
- Ring state or Called state.

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Video Phone Technical Bulletin

Power Consumption of Video Phone Series 1

1. Power Dissipation

Table 1: Power Dissipation and Advertisement

| | | Pow | er Adapter N | /lode | | POE Mode | | |
|------|--------------|----------|--------------|-----------|----------|-----------|-----------|------------------------------------|
| ITEM | Product | Standby | Operating | Max Power | Standby | Operating | Max Power | Class Advertisement (IEEE 802.3af) |
| | | Power(W) | Power(W) | Power(W) | Power(W) | Power(W) | Power(W) | , ,, |
| 1 | GXV3000 | 6.12 | 6.36 | 10.68 | N/A | N/A | N/A | N/A |
| 2 | GXV3005 | 6.24 | 6.36 | 10.68 | N/A | N/A | N/A | N/A |
| 3 | GXV3006 | 6.96 | 7.32 | 13.16 | N/A | N/A | N/A | N/A |
| 4 | GXV3140 V1.0 | 3.48 | 3.72 | 7.08 | N/A | N/A | N/A | N/A |
| 5 | GXV3140 V2.1 | 3.55 | 4.32 | 7.21 | N/A | N/A | N/A | N/A |
| 6 | GXV3140 V2.2 | 3.67 | 4.46 | 7.37 | 4.26 | 5.42 | 8.72 | Class 0 |
| 7 | GXV3175 V1.4 | 6.236 | 8.385 | 16.8 | 7.483 | 10.062 | 13 | Class 0 |
| 8 | GXV3175 V2.5 | 6.36 | 7.71 | 14.08 | 7.53 | 9.146 | 13 | Class 0 |

| | Video Phone model differences | | | | | | | | | | |
|---------|-------------------------------|--------------------|-----|-----------|----------|----------|--|--|--|--|--|
| Model | LCD size | Integrated WIFI | PoE | USB ports | FXS port | FXO port | | | | | |
| GXV3000 | 5.6inch,320*3RGB*234 | N/A | N/A | 2 | N/A | N/A | | | | | |
| GXV3005 | 5.6inch,320*3RGB*234 | N/A | N/A | 2 | N/A | YES | | | | | |
| GXV3006 | 5.6inch,320*3RGB*234 | N/A | N/A | 2 | YES | N/A | | | | | |
| GXV3140 | 4.3inch,480*3RGB*272 | N/A | YES | 1 | N/A | N/A | | | | | |
| GXV3175 | 7inch800*3(RGB)*480 | YES | YES | 2 | N/A | N/A | | | | | |

2. Test Condition Terminology

The following test condition terminology is used in Table 1.

Standby

- The phone has completed the boot-up process.
- The SIP application is running PCMU codec with SRTP.
- The idle screen is shown on the LCD.
- LCD Backlight is set to 10 (The brightest backlight).
- No established call.

Operating

- Operating 1: Handset Audio Call; Volume: 7 or 9; Backlight: 10; Codec: PCMU; Do not connect enternal device
- Operating 2: Handfree Audio Call; Volume: 7 or 9; Backlight: 10; Codec: PCMU; Do not connect enternal device
- Operating 3: Ringing; Volume: 7 or 9; Backlight: 10; Codec: PCMU; Do not connect enternal device
- Operating 4: Video Call; Volume: 9; Backlight: 10; Codec: H264; Video rate: 1024kbps; Do not connect enternal device
- Operating 5: Viewing Pictures; Backlight: 10; Connect with SD CARD
- Operating 6: Video Playing; Volume: 9; Backlight: 10; Connect with SD CARD to play the video in it
- Operating 7: Video Playing with HDMI Output; Volume: 9; Backlight: 10; Connect with TV to play video
- Operating 8: USB driver running; Volume: 9; Backlight: 10; Connect with USB Flash Drive, USB keyboard or USB mouse
- Operating 9: Wi-Fi Connected; Volume: 9; Backlight: 10; Connected with built-in Wi-Fi

• Max Power

- Volume: 9; Backlight: 10
- Video Phone working at Handsfree mode
- Using internal WI-FI (GXV3175)
- USB port loaded at 500mA (GXV3140 with power adapter)
- USB port loaded at 1000mA (GXV3175 with power adapter)

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Video Phone Technical Bulletin

Power Consumption of Video Phone Series 2

1. Power Dissipation

Table 1: Power Dissipation and Advertisement

| | | | Po | wer Ada | pter (12VDC |) | | POE (4 | 46.9VDC) | | |
|------|--------------|---------------|------------|---------|-------------|--------------|------------|--------|-----------|--------------|------------------------------------|
| Item | Product | HW Version | Idle State | Woi | rk State | MAX POWER | Idle State | Wor | k State | MAX POWER | Class Advertisement (IEEE 802.3at) |
| | | | Power (W) | State | Power (W) | (W) | Power (W) | State | Power (W) | (W) | (, |
| | | | | RING | 2.718 | | | RING | 3.895 | | |
| 1 | GXV3240 | V1.7A | 2.186 | CALL | 3.025 | 7.5843 | 3.8155 | CALL | 4.050 | 9.7166 | 4 |
| | | | | USB | 6.011 | | | USB | 7.727 | | |
| | | | | RING | 3.605 | | | RING | 4.940 | | |
| 2 | GXV3240+1EXT | V1.7A | 3.205 | CALL | 4.097 | 8.7829 | 4.967 | CALL | 5.202 | 10.8514 | 4 |
| | | | | USB | 7.064 | | | USB | 9.051 | | |
| | | | | RING | 4.707 | | | RING | 6.245 | | |
| 3 | GXV3240+2EXT | V1.7A | 4.2375 | CALL | 5.111 | 9.8802 | 6.192 | CALL | 6.531 | 12.0374 | 4 |
| | | | | USB | 8.107 | | | USB | 10.134 | | |
| | | | | RING | 5.749 | | | RING | 7.388 | | |
| 4 | GXV3240+3EXT | V1.7A | 5.2825 | CALL | 6.200 | 10.8827 | 7.3345 | CALL | 7.649 | 13.3248 | 4 |
| | | | | USB | 9.098 | | | USB | 11.422 | | |
| | | | | RING | 6.736 | | | RING | 8.531 | | |
| 5 | GXV3240+4EXT | V1.7A | 6.3505 | CALL | 7.438 | 12.5563 | 8.5305 | CALL | 8.774 | 14.6148 | 4 |
| | | | | USB | 10.184 | | | USB | 12.528 | 1 | |
| | | | | RING | 5.100 | | | RING | 7.346 | 15.6490 | 4 |
| 6 | GXV3275 | V1.4B | 4.738 | CALL | 5.403 | 13.818 | 6.766 | CALL | 8.077 | | |
| | | | | USB | 10.325 | | | USB | 13.601 | | |

Note:

Table 2: PD Power Classification (IEEE 802.3at)

| Class | Usage | Max Power Range (W) Used by the PD (Phone) |
|-------|----------|--|
| 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 |

2. Test Condition Terminology

The following test condition terminology is used in Table 1.

• Idle State

- The phone has completed the boot-up process.
- The SIP application is running PCMU codec with SRTP.
- The idle screen is shown on the LCD.
- $-\!\!-\!\!\!\!\!-$ LCD Backlight is at normal brightness.

¹⁾ The EXT is GXP2200EXT Extension Module.

²⁾ Class Advertisement refers to Table 2 for IEEE 802.3at Classification at PD.

• Work State

RING state:

- The phone is set up as described in the Idle State.
- The phone has an incoming call from another phone. The phone is ringing without answering it.

CALL state:

- The phone is set up as described in the Idle State.
- The phone is callling to another phone.

USB state:

- The phone is set up as described in the Idle State.
- The external USB device connected to phone's USB interface should be at the maximum power.

• Power Not To Exceed

- +nEXT means connect to n Extension Module(s), n=1,2,3,4.
- EXT work condition: All Indicator LEDs are lighting up.
- External USB device in maximum power.
- EXT work condition: All Indicator LEDs are lighting up.
- Maximum volume and maximum brightness level.
- Playing video or music.



IP Surveillance Technical Bulletin

Power Consumption of IP Surveillance

1. Power Dissipation

Table 1: Power Dissipation and Advertisement

| | | Pov | ver Adapter M | odel | | POE Mode | | Class |
|------|----------------|----------|---------------|-----------|----------|-----------|-----------|----------------|
| ITEM | Product | Standby | Operating | Max Power | Standby | Operating | Max Power | Advertisement |
| | | Power(W) | Power(W) | Power(W) | Power(W) | Power(W) | Power(W) | (IEEE 802.3af) |
| 1 | GXV3504 | 2.82 | 2.98 | 4.62 | 3.07 | 3.94 | 5.66 | 0 |
| 2 | GXV3501 | 2.11 | 2.42 | 3.10 | 2.50 | 2.93 | 4.42 | 0 |
| 3 | GXV3601_P | 2.95 | 3.80 | 5.28 | 3.84 | 4.70 | 5.76 | 0 |
| 4 | GXV3601_N | 2.95 | 3.80 | 5.28 | 3.84 | 4.70 | 5.76 | 0 |
| 5 | GXV3601_LL | 3.00 | 3.90 | 4.96 | 3.84 | 4.70 | 5.76 | 0 |
| 6 | GXV3601_HD | 3.06 | 3.95 | 5.00 | 3.84 | 4.70 | 5.76 | 0 |
| 7 | GXV3611_HD | 2.70 | 4.10 | 6.67 | 3.36 | 4.20 | 6.80 | 0 |
| 8 | GXV3611_LL | 2.30 | 3.40 | 6.05 | 3.36 | 4.20 | 6.40 | 0 |
| 9 | GXV3615 | 1.68 | 2.24 | 3.92 | 2.40 | 3.84 | 4.30 | 0 |
| 10 | GXV3615W | 2.16 | 3.03 | 4.48 | N/A | N/A | N/A | N/A |
| 11 | GXV3651_FHD | 1.71 | 2.68 | 5.12 | 2.22 | 3.36 | 6.21 | 0 |
| 12 | GXV3662_HD | 1.68 | 2.83 | 10.30 | 2.15 | 3.58 | 8.61 | 0 |
| 17 | GXV3662_FHD | 3.36 | 3.79 | 11.26 | 4.03 | 4.52 | 11.99 | 0 |
| 13 | GXV3500 | 1.49 | 1.55 | 1.60 | 1.93 | 1.98 | 2.05 | 0 |
| 14 | GXV3615WP_HD | 2.48 | 2.54 | 3.34 | 3.45 | 3.65 | 5.12 | 0 |
| 15 | GXV3610_HD | 1.92 | 5.52 | 6.72 | 2.28 | 6.49 | 7.42 | 0 |
| 16 | GXV3610_FHD | 2.52 | 6.12 | 7.32 | 3.04 | 7.29 | 8.27 | 0 |
| 17 | GXV3672_HD | 2.00 | 5.61 | 6.74 | 2.51 | 6.63 | 7.57 | 0 |
| 18 | GXV3672_FHD | 2.61 | 6.20 | 7.41 | 3.27 | 7.47 | 8.45 | 0 |
| 19 | GXV3672_HD_36 | 2.00 | 5.61 | 6.74 | 2.51 | 6.63 | 7.57 | 0 |
| 20 | GXV3672_FHD_36 | 2.61 | 6.20 | 7.41 | 3.27 | 7.47 | 8.45 | 0 |
| 21 | GXV3674_HD_VF | 2.19 | 5.93 | 7.06 | 2.53 | 6.91 | 7.93 | 0 |
| 22 | GXV3674_FHD_VF | 2.86 | 6.52 | 7.72 | 3.34 | 7.65 | 8.58 | 0 |

2. Test Condition Terminology

The following test condition terminology is used in Table 1

Standby

- The IP Surveillance has completed the boot-up process
- There is no Video input

Operating

- The IP Surveillance is setup as described in the Idle State
- Video input /output/Audio are working
- The UUT is connected to PC with Web page logged in

• Max Power

- Maximum external devices connected to the IP Surveillance device



Network Video Recorder Technical Bulletin

Power Consumption of Enterprise Network Video Recorder Series

1. Power Dissipation

Table 1: Power Dissipation and Advertisement

| | | | SW REVISION | Power Adapter (12VDC) | | | | | |
|------|---------|----------------|----------------|-----------------------|-----------------|-----------|---------------------------|--|--|
| ITEM | Product | HW REVISION | | Without HDD State | With HDDs State | | MAX POWER CONSUMPTI | | |
| | | | | Power (W) | State | Power (W) | Power (W) | | |
| _ | GVR3550 | V1.4A | 1.0.0.62 | 4.2740W | 2HDDs | 14.6716W | 65.994W | | |
| 1 | GVK3550 | | | 4.214UVV | 4HDDs | 22.6670W | 03.994W | | |

Note:

- 1). The hard disk used in the test is Seagate brand (ST1000DM003).
- 2). In "With HDDs State" mode, the HDDs is in read or write mode.
- 3). In "MAX POWER CONSUMPTION" mode, the HDDs is in boot mode.

2. Test Condition Terminology

The following test condition terminology is used in Table 1

- Without HDD State
- The NVR has completed the boot-up process.
- The idle screen was shown on the VGA Display.

• With HDDs State

- The NVR was setup in video mode.
- The NVR was connected with 16 road IP camera.
- The NVR was connected HDDs to save the video.

Power Not to Exceed

- NVR work condition: All Indicator Camera and HDDs.
- External USB (500mA+ 1000mA) device in Max Power.
- 16 road channel decoding video surveillance video.
- The NVR is connected with 4 HDD.



ATA Technical Bulletin

Power Consumption of ATA Series

1. Power Dissipation

Table 1: Power Dissipation and Advertisement

| | | | Power Adapter Model | | | | | | |
|--------------|----------|--------|---------------------|-----------|--------------|-----------|--|--|--|
| ITEM Product | | VER | Standby Operating | | Max Power | | | | |
| | | | Power (W) | Power (W) | 3RENs Loaded | Power (W) | | | |
| 4 | 4 117000 | LITOOC | 4.20 | 2.60 | Europe | 2.30 | | | |
| ' | HT286 | | 1.30 | | America | 3.00 | | | |
| | 2 HT486 | 117400 | 4.00 | 2.22 | Europe | 3.50 | | | |
| ^ | | | 1.80 | 3.00 | America | 4.00 | | | |

| | | | Power Adapter Model | | | | | | |
|------|--------------|------|---------------------|----------|--------------|----------|--|--|--|
| ITEM | ITEM Product | | Standby Operating | | Max Po | wer | | | |
| | | | Power(W) | Power(W) | 3RENs Loaded | Power(W) | | | |
| 3 | HT502 | 2.26 | 3.36 | Europe | 4.43 | | | | |
| ٠ | 111302 | V2.0 | 2.20 | 3.30 | America | 4.64 | | | |
| 4 | LITEO2 | | 2.74 | 3.52 | Europe | 3.82 | | | |
| 4 | 4 HT503 | | 2.74 | 3.32 | America | 4.32 | | | |

| | | | Power Adapter Model | | | | | | |
|------|--------------|-----------|---------------------|-----------|---------------------|----------|--|--|--|
| ITEM | ITEM Product | | Standby | Operating | Operating Max Power | | | | |
| | | | Power(W) | Power(W) | 3RENs Loaded | Power(W) | | | |
| 5 | HT701 | V3.0 | 1.05 | 1.05 1.73 | Europe | 4.85 | | | |
| ľ | 5 11/01 | V 3.0 | 1.03 | 1.73 | America | 3.95 | | | |
| 6 | HT702 | V2.0 | 4.25 | 2.93 | Europe | 5.70 | | | |
| ľ | П1702 | V2.0 | 1.35 | 2.93 | America | 6.05 | | | |
| 7 | HT704 | 1.60 4.21 | 4.24 | Europe | 4.57 | | | | |
| ' | П1704 | | 1.60 | 4.21 | America | 9.27 | | | |

| | | | Power Adapter Model | | | | | |
|------|------------------------|-----|--|------------|------------|--|--|--|
| ITEM | Product | VER | Standby | Operating | Max Power | | | |
| | | | Power(W) | Power(W) | Power(W) | | | |
| 8 | DP715 B/S | | 0.88W | 1.0W | 1.2W | | | |
| | | | 2 rechargeable batteries(AAA, 1.2V/500mAh, NiMH) | | | | | |
| ITEM | Product | VER | Charging | Standby | Talking | | | |
| | | | Time(Hour) | Time(Hour) | Time(Hour) | | | |
| 9 | DP715 H/S DP710 H/S | | 16H | 80H | 10Н | | | |

2. Test Condition Terminology

The following test condition terminology is used in Table 1.

Standby

- The ATA has completed the boot-up process.
- The SIP application is running using PCMA codec with SRTP.
- No established call and no incoming ring.

Operating

- The ATA is set up as described in the Idle State.
- The maximum number of calls are established for each Unit Under Test (UUT).
- The Phone connected to UUT FXS port is working at Handfree mode and set to maximum volume.

• Max Power

— 3RENs loaded on each FXS port of UUT and ring established for all HT7xx except HT701.

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Gateway Technical Bulletin

Power Consumption of Gateway Series

1. Power Dissipation

Table 1: Power Dissipation and Advertisement

| ITEM | | | Power Adapter Model | | | | | |
|------|----------|---------|---------------------|-----------|--------------|-----------|--|--|
| | Product | Version | Standby | Operating | Max Power | | | |
| | | | Power (W) | Power (W) | 3RENs Loaded | Power (W) | | |
| 1 | GXW4004 | | 3.60 | 6.10 | Europe | 6.21 | | |
| | | | | | America | 8.92 | | |
| 2 | GXW4008 | 7.63 | 7.62 | 12.06 | Europe | 12.18 | | |
| | GAVV4006 | | 12.00 | America | 17.72 | | | |
| 3 | CVW4004 | 20.40 | 00.40 | 04.00 | Europe | 23.99 | | |
| | GXW4024 | | 24.30 | America | 43.36 | | | |

| | Product | Version | Power Adapter Model | | | | |
|------|---------|---------|---------------------|-----------|-----------|--|--|
| ITEM | | | Standby | Operating | Max Power | | |
| | | | Power(W) | Power(W) | Power(W) | | |
| 4 | GXW4104 | | 3.58 | 3.78 | 3.78 | | |
| 5 | GXW4108 | | 3.91 | 4.27 | 4.27 | | |

| | Product | Version | Power Adapter Model | | | | | | |
|------|-----------|---------|---------------------|-----------|--------------|----------|--|--|--|
| ITEM | | | Standby | Operating | Max Power | | | | |
| | | | Power(W) | Power(W) | 2RENs Loaded | Power(W) | | | |
| 6 | 0.000.000 | | 2.69 | 15.31 | Europe | 24.00 | | | |
| | GXW4216 | | | 15.31 | America | 26.40 | | | |
| 7 | GXW4224 | | 4.00 | 22.58 | Europe | 36.79 | | | |
| | | | | 22.36 | America | 39.38 | | | |
| 8 | GXW4232 | | 4.15 | 29.59 | Europe | 43.70 | | | |
| | | | | 29.59 | America | 46.02 | | | |
| 9 | GXW4248 | V1.0A | 5.20 | 9.00 | Europe | 45.50 | | | |
| | | | | 9.00 | America | 50.90 | | | |

Note:

- 1) GXW4216/24/32/48 is running with IP call.
- 2) GXW4216/24/32 has a Fan (MAX current: 92mA); GXW4248 has two fans. Fan is off in the test.

2. Test Condition Terminology

The following test condition terminology is used in Table 1.

Standby

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

Operating

- The device is setup as described in the Idle State.
- The maximum number of calls are established for each Unit Under Test (UUT).
- The Phone connected to UUT FXS port is working at Handfree mode and set to maximum volume.
- 1 Phone connected to GXW4248 FXS port is working at Handfree mode and set to maximum volume.

• Max Power

- 3RENs loaded on each FXS port of UUT and ring established for all GXW40XX.
- 2RENs loaded on each FXS port of UUT and ring established for all GXW42XX.
- 1REN loaded on each FXS port of UUT and ring established for all GXW4248.



IPPBX Technical Bulletin

Power Consumption of IPPBX Series

1. Power Dissipation

Table 1: Power Dissipation and Advertisement

| ITEM | ITEM Product | | Power Adap | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---------------|---|------------|--------------------|------------|--------------------------------|----------|--------------------|------------------------|----------------|------|---------|------|------|------|------|------|------|---------|------|------|-------|---------|-------|---|
| | | Idle State Work State Power Not to Exceed | | t to Exceed | Idle State | Work State Power Not to Exceed | | t to Exceed | Class Advertisement | | | | | | | | | | | | | | | | |
| I I E IVI | | Power(W) | Power(W) | FXS Port Loaded | Power(W) | Power(W) | Power(W) | FXS Port Loaded | Power(W) | (IEEE 802.3af) | | | | | | | | | | | | | | | |
| 1 | 1 GXE5024 | 4.20 | 6.22 | Europe | 6.72 | 5.64 | 7.68 | Europe | 8.11 | 0 | | | | | | | | | | | | | | | |
| l l | | | | America | 8.01 | | | America | 10.11 | 0 | | | | | | | | | | | | | | | |
| 2 | GXE5028 | 4.95 | 4.95 | 4.95 | 4.95 | 4.95 | 6.75 | Europe | 7.60 | 6.32 | 8.11 | Europe | 8.21 | 0 | | | | | | | | | | | |
| ' | GAE3026 | | | | | | 6.75 | America | 8.68 | 0.32 | 0.02 | America | 9.94 | 0 | | | | | | | | | | | |
| 3 | LICM6400/A | CM6102/4 5.33 9.57 America 9.57 | F 22 | E 22 | E 22 | E 22 | E 22 | E 22 | E 22 | E 22 | E 22 | F 22 | E 22 | F 22 | F 33 | E 22 | E 22 | 0.57 | Amorica | 0.57 | 7.38 | 11.66 | America | 11.66 | 4 |
| ° | UCIVI6102/4 | | 9.57 | 7.30 | 11.00 | America | 11.00 | 4 | | | | | | | | | | | | | | | | | |
| 4 | UCM6108/16 | M6109/16 6.06 | 6.06 10.31 | America | 10.31 | 7.6 | 12.18 | America | 12.18 | 4 | | | | | | | | | | | | | | | |
| 4 | OCIVIO 100/16 | 0.06 | | | | | | | | 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