

## Wireless CDMA/GSM PAYPHONE SOLUTIONS

*Protel's CDMA/GSM Payphones are the perfect compliment to your network. Service providers can now rapidly install Protel Wireless payphones in remote areas, urban sites, public transportation or disaster scenes - anywhere customers need Instant, Reliable Communications.*

### Innovative Payphone Solutions

All Components are contained in Upper Housing;  
\* Cellular Radio,  
\* Power Supply,  
\* Cellular Back-up Battery.....  
\* Coin mech,  
\* Escrow relay,  
\* Card reader, Display



#### A Full Range of Wireless Technologies

The world is demanding reliable wireless service and Protel is leading the way. In many areas of the world where constructing a wire-line network is cost-prohibitive. Now you can deploy Protel wireless payphones virtually anywhere providing convenient payment options. Protel wireless payphones can be powered from either an AC or DC power source. Optional 12 volt battery back-up pack is available.

- **Fully Integrated Solution** -Protel has designed a controller board that works directly with a CDMA or GSM built-into the transceiver that mounts directly on the Protel controller board. All of the payphone and cellular radio components including batteries and power supply are located in the upper housing, eliminating the need to run external wires or mount components in the pedestal or external power boxes. This compact and economical package greatly simplifies the cost and ease of installation and improves the serviceability of the paytelephone.
- **Smart Cellular Battery Backup** - Our SCBB technology is fully integrated in Protel's controller Chassis located in the upper housing. This allows for the Pay-telephone to operate on AC power only, AC power with Battery back-up, Solar Panel power with Battery back-up or Battery only operation.
- **Back-Up Battery Option** -If operation of the telephone is desirable during power outages, an optional battery can be mounted on the ringer bracket in the upper housing. This option provides power to the telephone during AC power out conditions or as a stand-by power source for solar operation when sun light is not available. Due to the advanced low power technology employed in the XP1000-II phone it is possible to operate the telephone from Battery power only. This would be at locations where Solar power or AC power is not available. In this configuration, the battery would be swapped out to a freshly charged battery by the service technician each time the coin box is emptied.

#### A Full Range of Applications

Protel Wireless payphones can meet consumer demands in rural communities, on remote jobs sites, in large cities where it is cost prohibitive to run power or telephone lines to the phone and at tourist attractions. Wireless solutions are also perfect for temporary events, such as fairs, exhibitions, and sporting events. When unforeseen disasters disrupt wire-line service, the quick deployment of Protel's wireless payphones can provide vital communications. Other types of wireless service can include operation on buses, ferries, and trains.

#### A Full Range of Payment Options

Protel wireless models can be configured to support any payment option or various combinations of options, including chip cards, magnetic stripe cards, coins or tokens. When configured as payless phones, Protel's wireless models provide access to prepaid calling platforms, or function as courtesy or emergency phones that do not require payment.

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# XP1000-II Wireless Payphone

## Specifications



### Specifications

**Air Interface Standard**  
**Terminal to base frequency**  
**Base to terminal frequency**  
**RF power output**  
**Antenna options**  
**RF termination**  
**Internal Battery backup**  
**External Battery Backup**  
**Talk time**  
**Talk time / Standby time**  
**Operating temperature range**  
**Storage temperature range**  
**Humidity**

### GSM 900 / 1800 / 1900 MHz

Phase 2/2+  
890 to 915 / 1710 to 1785 1850 to 1950  
935 to 960 / 1805 to 1880 / 1930 to 1990  
2W (GSM900) / 1W (GSM1800/1900)  
Omni (4dBd) or Yagi (10dBd)  
Mini-UHF female  
12V – 0.8Ah  
12V – 5Ah  
8h with 5Ah Battery  
16h / 72h with 5Ah Battery  
0° to 50°C (32° to 122°F)  
-20° to 60°C (14° to 140°F)  
Up to 95% relative, non -condensing

### GSM/GPRS 850 / 1800 / 1900 MHz

GSM/ phase 2/2+  
824 to 849 / 1710 to 1785 / 1850 to 1950  
869 to 894 / 1805 to 1880 / 1930 to 1990  
2w (GSM850) / 1W (GSM1800/1900)  
Omni (4dBd) or Yagi (10dBd)  
Mini-UHF female  
12V – 0.08Ah  
12V – 5Ah  
8h with 5Ah Battery  
16h / 72h with 5Ah battery  
0° to 50°C (32° to 122°F)  
-20° to 60°C (14° to 140°F)  
Up to 95% relative, non -condensing

### Specifications

**Air Interface Standard**  
**Terminal to base frequency**  
**Base to terminal frequency**  
**RF power output**  
**Antenna options**  
**RF termination**  
**Internal Battery backup**  
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**Standby time**  
**Operating temperature range**  
**Storage temperature range**  
**Humidity**

### CDMA digital 800 MHz \*

IS-2000 r.0 (1X) / IS -95A / IS-95B  
824 to 849 MHz  
869 to 894 MHz  
200mW (23dBm) – 1W (30dBm)  
Omni (4dBd) or Yagi (10dBd)  
Mini-UHF female  
12V – 0.8Ah  
12V – 5Ah  
16h / 72h with 5Ah Battery  
14h with BBU  
0° to 50°C (32° to 122°F)  
-20° to 60°C (14° to 140°F)  
Up to 95% relative, non -condensing

### CDMA PCS 1900 MHz \*

IS-2000 r.0 (1X) / IS -95A / IS-95B  
1850 to 1910 MHz  
1930 to 1990 MHz  
200mW (23dBm) – 1W (30dBm)  
Omni (4dBd) or Yagi (10dBd)  
Mini-UHF female  
12V – 0.08Ah  
12V – 5Ah  
16h / 72h with 5Ah battery  
14h with BBU  
0° to 50°C (32° to 122°F)  
-20° to 60°C (14° to 140°F)  
Up to 95% relative, non -condensing

## Key Features

- \* Integrated Cellular Transceiver, Flash Chassis and Battery Back-up circuit incorporated in a single compact modular assembly that mounts in the upper phone housing. Optional Battery pack mounts to the ringer bracket on the modular circuit board assembly. This design eliminates the need for mounting additional brackets and circuitry in the phone pedestal, eliminates interwiring of external components or the need for external battery box with battery and battery charger.
- \* Operates from any of the following power inputs: 18 vac only input, , 12 vdc only, 18 vac with battery back-up or solar panel with 12 volt battery back-up.
- \* Longer Talk & Standby times - Full product integration and high frequency inverters associated with Smart BBU results in longer usage times.
- \* Active Authentication Capabilities deters fraud and cloning.
- \* Real time Signal Strength Bar Graph allows antenna positioning without additional measurement equipment.
- \* Complete set of self-test routines ensure proper and correct operation, plus simple field troubleshooting.

## Key Benefits:

- \* Totally Stand-Alone operation - No need for pre-existing infrastructure
- \* Reduced Cost and Time for Installation - Mobile, Simple and Modular
- \* Wireless Installation allows cost-effective catering to Temporary Events
- \* Allow Wireless Operators to compete with traditional wired payphones
- \* Compatible with all Protel Elite and XP Series Payphones
- \* Use same Protel components- Minimum need for new spare parts
- \* Provides same Protel functionality - No need to re-train technicians.



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