Technical Specification :

CPU	16-bit micro controller
RAM	512Kbyte x 16-bit
Flash ROM	512Kbyte x 16-bit
LAN Interface	Auto-sense 10/100Mbps Fast Ethernet
Serial Port	Two asynchronous serial ports for UPS communication and console communication
SNMP MIB	RFC1213, RFC1268, USHA MIB
Network Protocol	TCP/IP, UDP, SNMP, Telnet, SNTP, HTTP, SMTP
LED	Power, Status, LAN 10/100 Link
Power Input DC	● USHA Pro ：8volt～15volt ● USHA ProE ：12volt unregulated
Power Consumption	3 Watts maximum
Operating Environment	● Temperature ：0°C～40°C ● Humidity ：10～80% non-condensed
Miscellaneous	Real-Time-Clock, Reset button
Language	English, Traditional Chinese, and Simplified Chinese
Firmware Upgrading	● Network Upgrade ● Serial Upgrade（for recovery use）
System Security	Provides IP-based filtering and password protection for system operation and administration
Approvals	CE, FCC Class B
Warranty	Two years

Operating Systems Supported :

- Microsoft Windows 95, 98, NT, 2000, ME, XP
- Novell
- Solaris（x86 version）
- SCO UNIX 5.x
- SCO UnixWare 7.x
- Other Linux-derivative OS

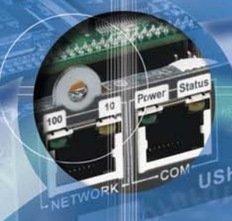
Extension Devices Supported :

- Environmental Monitor Device （EMD）
  （Temperature and humidity sensor）
- Motion detector
- Smoke detector
- Door open detector

Ordering Information :

USHA Pro（internal model）：plugs into the expansion slot of UPS

USHA ProE（external model）：communicates with UPS through RS232 cable



USHA

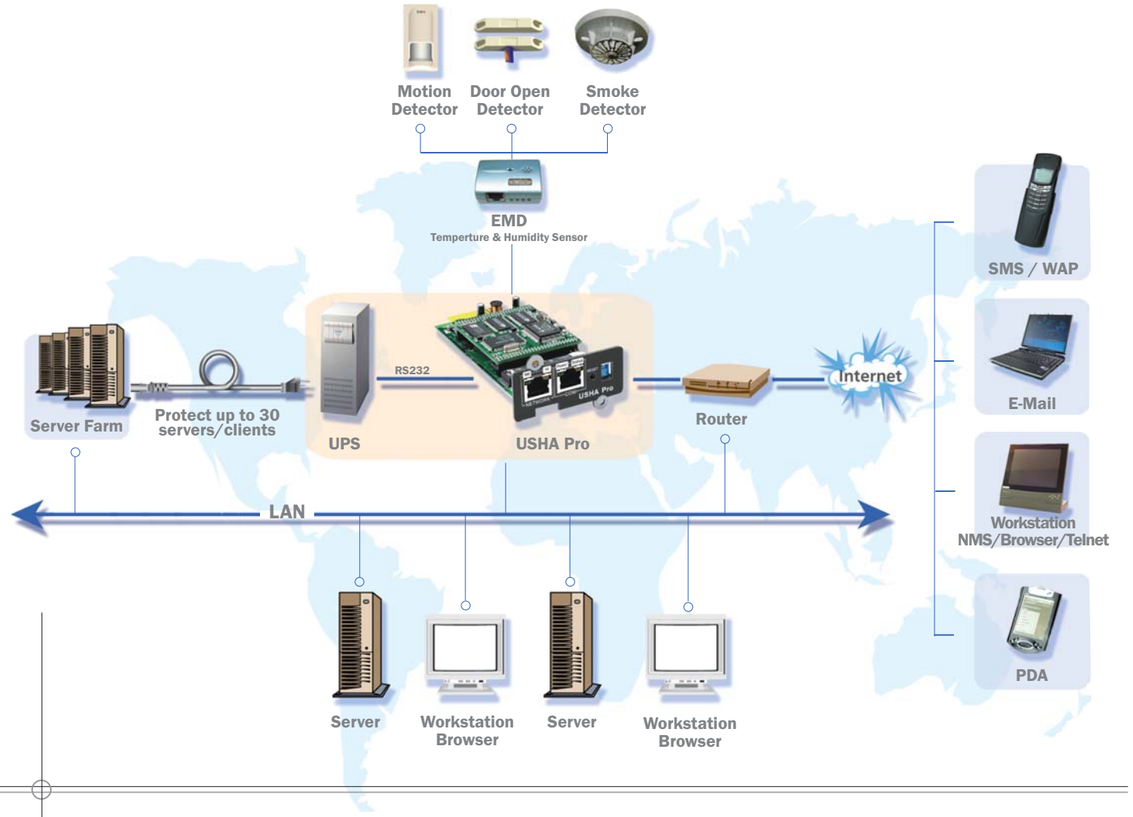
Intelligent Network
Management For UPS

USHA — Versatile Provision

- Remote and shareable accessibility
- Centralized and distributed manageability
- Web-based interface usability
- Multiple networking platforms availability
- Various device / protocol driver portability
- Multi-level event alert / log traceability

Advantages :

- Real-time UPS health monitoring
- Comprehensive UPS management and flexible configuration via Web Browser, NMS, Java Applet, Telnet, SNMP, or Hyper Terminal
- Automatic events notification via E-mail, mobile phone （WAP）, short message （SMS）, SNMP Trap, and PDA
- Graceful shutdown to protect up to 30 servers/workstations from data loss due to power outage.
- Automatically assigned IP via DHCP or BOOTP
- Scheduling shutdown/startup/ reboot of UPS via remote control
- Regularly records UPS parameters for statistical analysis and event diagnostics
- Standard UPS MIB and USHA-proprietary MIB supported
- Auto-sense to works in the 10/100Mbps fast Ethernet network environment
- Configuration utility simplifies the firmware upgrade process
- Quick and easy installation
- Multiple languages supported
- Friendly user interface



Remote UPS Monitoring and Management

▲ HTTP

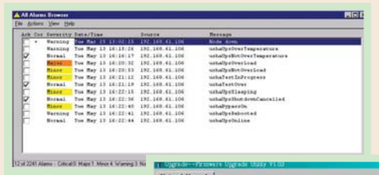
▲ Java Applet

▲ USHA View

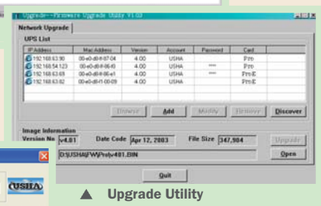
- **HTTP :** Supports HTTP protocol. Remote UPS monitoring and management can be easily done through Web Browsers such as Microsoft Internet Explorer and Netscape.
- **SNMP :** Supports SNMP protocol. Centralized monitoring and management the UPS can be accomplished by a Network Management System such as HP Open View.
- **Java Applet :** Java applet can be launched from within Web Browsers for real-time UPS status monitoring with graphical data.
- **Telnet :** Provides alternative method for configuration of the UPS, which includes automatic log out function for additional security.
- **USHA View :** Designed for simultaneous UPS services monitoring and management.

Proactive UPS Event Handling

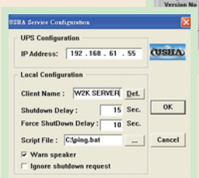
- **Event Log :** Automatically records and displays UPS events, warning, and time stamps.
- **UPS Status Notification :**
  1. SNMP : notifies multiple hosts, previously assigned in an SNMP trap table, of UPS status and warning messages.
  2. Java applet : notifies the Administrator of power events with a pop-up dialog box.
  3. Shutdown Daemon : notifies servers/workstations （Max 30） of power events and begins the shutdown procedure. Requires shutdown program to be installed on the servers/workstations
- **E-mail Notification :** Daily routine information and power events can be send through E-mail.
- **Mobile Phone :** With WAP support, administrator can either browse the UPS information or receive the power events short message （SMS） through mobile phone.
- **PDA :** Ability to browse UPS information through PDA



▲ Event Log

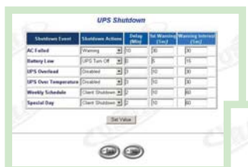


▲ Upgrade Utility



▲ Shutdown Daemon

Intelligent Shutdown Service



▲ UPS Shutdown

▲ Schedule Shutdown

- **User unattended shutdown :** Automatically warns and shuts down UPS and connected devices * on the user-defined schedules or when there is a power event.
- **User attended shutdown :** Puts UPS to "sleep mode" or turns off/on the UPS.
- **Safe shutdown operation :** Provides countdown dialog boxes, and safely shuts down servers/workstations when there is a power event.

* **Connected devices stands for servers/workstations that have installed provided shutdown programs.**