

SNMP Accessories For Hyundai UPS

Select Hyundai UPS products are capable of accepting Simple Network Management Protocol (SNMP/NMC) communications cards. SNMP is a communications protocol for devices to a Local Area Network (LAN). It can be used to obtain the status of a UPS connected to the network (Internet and Ethernet device) and issue commands to it.

SNMP Capable UPS

Hyundai UPS product lines which offer optional SNMP communications capability include:

- Endeavor 6 & 10kVA single phase and three phase 10-200KVA - tower
- Endeavor 6 & 10kVA single phase and three phase 10-200KVA - rack
- Endeavor 1-10kVA online single phase - rack/tower

Features

SNMP option cards provide IT/Network administrators with a comprehensive set of features to manage and monitor UPSs over the LAN:

- **Connect the UPS directly to a LAN** - utilizing a standard RJ45 Ethernet connection; requires no special application software
- **Network UPS management** - monitor and manage the UPS over any computer attached to the network
- **Integrate UPS into Network Management System (NMS)** - using the included MIB (Management Information Base) agent or the included SNMP management software
- **Schedule events** - shutdown or restart connected equipment daily, weekly, or monthly using the integrated scheduler
- **Track utility problems via Event Logs** - to provide history of power events on the UPS including: power quality, equipment draw, and blackouts.
- **Multiple server shutdown** - using the included SNMP management software allows the UPS to shutdown multiple devices sequentially when a power event occurs
- **Event Notification** - notify multiple IT personnel via SNMP traps or e-mail when a power event occurs
- **Telnet Support** - for flexible configuration of the SNMP card

Card Installation

All compatible Minuteman UPSs feature an SNMP option slot at the rear of the unit.

SNMP Option Slot



Browser-based Management Cards

Multiple options are available to meet the needs of a variety of network



requirements. Cards include:

SNMP- iStars V2.0

IPv4/IPv6 compliant; compatible with all of hyundai UPS. New features include:

- Full compatibility with both **IPv4 and IPv6** standards making it the perfect card for future migration options
- Compatible with **SNMPv1, v2C, and v3** protocols
- Supports **SYSLOG**; send messages to a maximum of four Syslog servers when an event occurs
- Supports **RADIUS Login** application
- User Configurable **Event Alarm** levels
- Adjustable **Low Battery** warning alarm
- Batch **Configurations and Upgrades**

SNMP-NET & SNMP-SSL

Base SNMP card compatible with all of Hyundai UPS

- Supports **SSL, SSH, HTTPs, and SNMPv3** security protocols
- Supports **RADIUS Login** Application

NetAgent SNMP

SNMP management compatible with all Series UPS.

Monitoring Accessories

Multiple accessories are available to provide administrators with a complete monitoring solution for networks.

- **ENV Probe** - temperature and humidity monitoring module for SNMP-NET and NV6 cards
- **SSL Detection Modules:**
SSL-EMD (temp/humidity), SSL-SMOKE, SSL-WATER, SSL-VIBRATION, SSL-DOOR

ENV PROBE



SSL-EMD

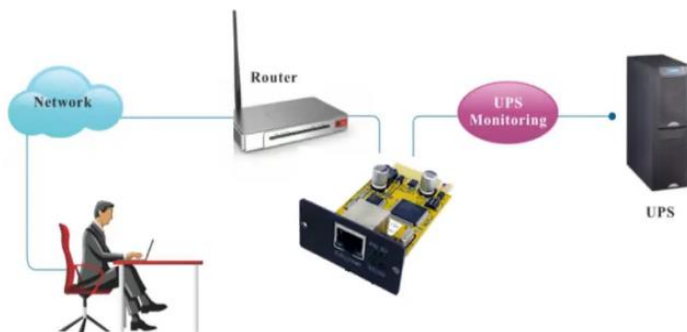


SNMP Card Specifications

Model	SNMP-NV6	SNMP-NET
Network Connection	RJ-45 Jack Connection	
Operating Temperature	0 ~40°C	
Operating Humidity	10~80%	
Power Input	9~24VDC	
Power Consumption	2 Watt Maximum	1 Watt Maximum

Model	SNMP-SSL
CPU	16-bits AC1105 Fast Ethernet
Memory	2MB (1Mbit x16) TFBGA Flash ROM 2MB (1Mbit x16) SDRAM
Serial Communication	Two UART Channels, one RJ-45.
LAN Controller	10/100 Mbits Ethernet controller
Network Connection	10/100 TX RJ-45 jack connector
RTC	Real time clock
Network Protocol	SNMP over UDP/IP / HTTP over TCP/IP ARP, TFTP, SSH, SSL, NTP and ICMP
Supported MIB	UPS MIB (RFC1628) / SNMP-SSL MIB
Operating Temperature	0~40°C
Operating Humidity	10~80%
Power Input	8-15V DC
Power Consumption	3.0 Watts Maximum
Regulatory Compliance	Class AB

System Application Diagram

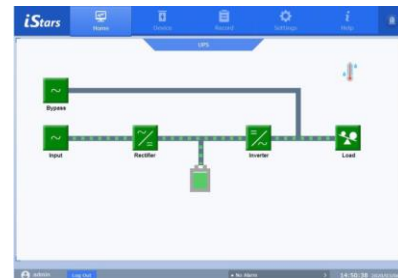


Hyundai SNMP cards are an interface between the UPS and the network. Cards can communicate the status of a UPS and issue commands to it. All Hyundai SNMP cards support SNMP and HTTP protocols for user access. Through the SNMP(NMC) and/or Web Browser, users can monitor the UPS status, issue commands, and set up the SNMP card through the network.

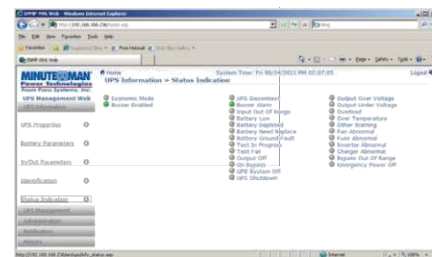
ENV Probe Specifications

Model	ENV Probe
Size (L x W x H)	2.6" x 2.0" x 1.4"
Weight Net	0.50 lbs
Temperature	0~65°C
Measurement	32 ~ 149° F
Humidity Measurement	20~90%
Power Input	12V DC
Power Consumption	400 mw

SNMP-NET/NV6 Interface



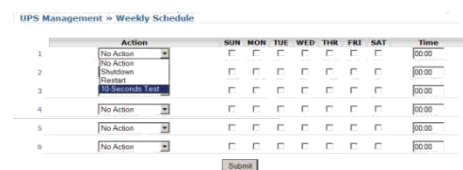
EZSetting configuration screen (NV6 & NET)



Web-based status screen



UPS/SNMP configuration screen



Schedule actions (shutdown, restart, or 10-second test) to happen weekly

For a full breakdown of features for each SNMP accessory, visit www.ups-hyundai.com

