BENNING

World Class Power Solutions

Connexion

Connetivity Concept for integrated Power Management Solutions of BENNING UPS systems

CONNEXION
proofed and convenient

Parallel Handling

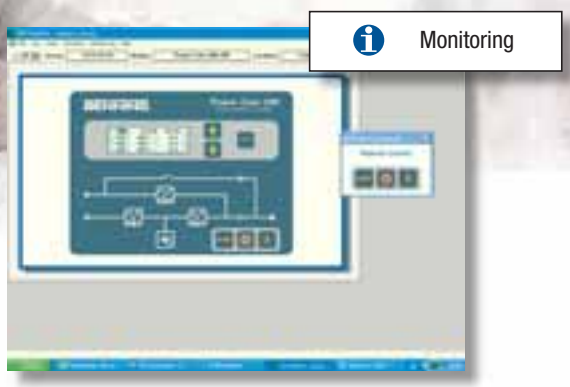
A UPS system provides security for a critical application. Purchasing a parallel redundant system, provides even further security. Consequently it is necessary to consider parallel systems as a single unit. Critical measurements, such as battery autonomy are calculated and expressed for the combined system.

A shutdown is not initiated until the parallel system is unable to deliver the load current demanded. Major system alarms are not activated unless the situation has reached a critical state. This functionality can be realised using different Power Management Solutions and Software Packages.

Power Management Solutions

- **Environmental Monitoring**
- **Integration in Network Management System**
- **Integration in building Management System**
- **ModBus interface**
- **ProfiBus interface**
- **Remote Monitoring System through WEB**
- **Remote Monitoring System with SNMP**
- **Redundant UPS Monitoring**
- **Integration in Multivendor/ Multiplatform environments**
- **Extensive alarm handling/ Dispatching**

UPS Display



Events, alarms, messages dispatching

Soft- and Hardware Packages

- **UPS (UpsMan, UpsMon, RCCMD), management and shutdown solution for multiplatforms and heterogeneous networks, including parallel handling capability**
- **UNMS (UPS Network Management System), custom solutions for integrated management**
- **SNMP Interfaces, available either as slot card or external unit**
- **Modbus solution; provided using TCP/IP or as an option via RS485**
- **Modem interface**
- **TempMan, temperature interface (AUX device)**
- **RSP (Remote Signalling Panel), via volt free contacts or RS485 interface**
- **Switch Box, for duplication of volt free contacts from the UPS**
- **Site switch, management of 4 independent power outlets (SS4 AUX)**
- **AS 400 interface**

SNMP Box

SNMP Card

CONNEXION Mainfeatures

UPSMAN/UPSMON – CS121 Web / Adapter UPS functions

UPS-Management software for Windows 95/98/2000/NT/XP®	UPS-Management software for Novell NetWare®	CS121 – SNMP Web Manager®	UPS-Management software for Unix®/Mac OS® systems
UPS – Standard functions/warning e.g. battery low/power failure/overload/UPS connection restored/System shutdown			
UPS – Extended functions/warnings e.g. Inverter overload/Fuse blown/Rectifier mains fault/Inverter feeding/Battery switch open			
UPS – send UPS shutdown signal			
UPS – SNMP redundancy capability (USW software)			
Graphic display UPSMON/HTML/JAVA			
Environmental monitoring – Facility management e.g. BENNING Sitemanager, Sitemonitor, Tempman, Siteswitch	–	Environmental monitoring – Facility management e.g. BENNING Sitemanager, Sitemonitor, Tempman, Siteswitch	–

UPS communication - 3 possibilities:

- **System Shutdown** (local connection via dry-contacts)

Shutdown-batch (z.B. AS/400/WinNT)

- **Shutdown and UPS Management** (PSP - local connection via RS232/USB)

Shutdown-Routine and UPS Mgmt. via UM-Console

- **Shutdown and UPS Management** (SP/WAN - via LAN/WAN)

Network connection via UM-agent plus shutdown routine via UM-client

Shutdown (UM-Client) UPS Mgmt. (UM-Console)

UPS range

ENERTRONIC S

ENERTRONIC M

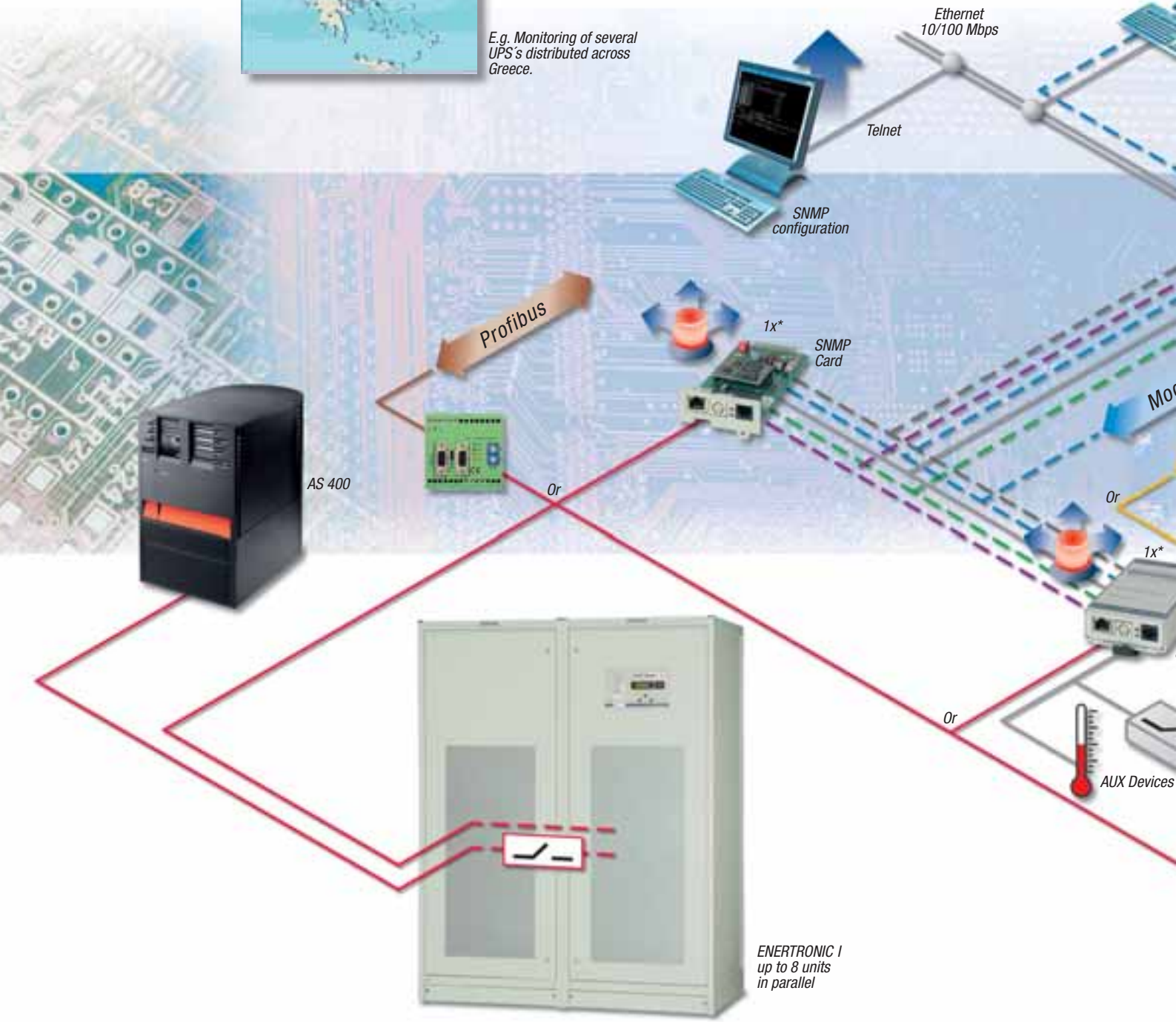
ENERTRONIC L

ENERTRONIC modular

CONNEXION
multiple possibilities

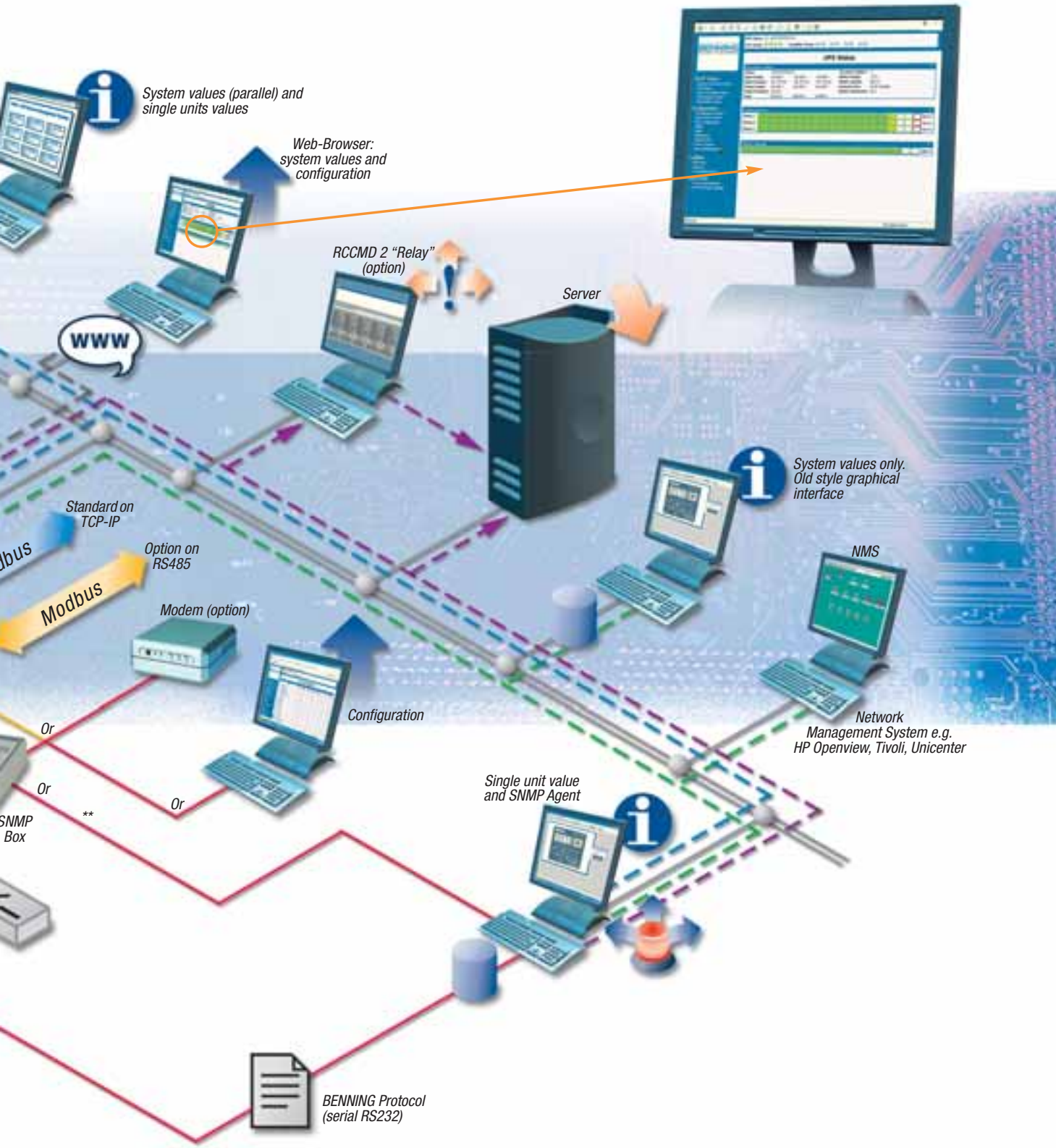
Functionality overview including Parallel Handling (customized)

E.g. Monitoring of several UPS´s distributed across Greece.



RS232	Serial communication (UPS protocol)	*	NxSNMP Cards for redundancy, renouncing on parallel handling capability
TCP-IP	Protocol, complete data set is transferred	**	Serial "duplicator" (pipe-through), with limited capabilities (only basic values are available)
SNMP	Standard protocol, RFC1628. Partial data set. UPS System is seen as a global.	UPSMon	User Interface: Graphical user interface for all Windows Oss
RCCMD	Remote Commands		
RS485	For optional Modbus		
RS485	For optional Profibus		

CONNEXION
choose your connectivity solution



UPSMan	Interface Module: Data collection, event log and alarm dispatching for all common Oss		Configuration facility for the SNMP Interface
RCCMD	Remote Console Commands: Remote execution of management commands (Cross platform). Shutdown and more		Dispatching of events, alarms, messages. Based on scripts. Functionality available on the SNMP Interface and UPSMan. Based on Network services (mail server, etc.). Greatly configurable.

For additional information please contact us.

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