ETHERNET/SNMP/NIMBUS CLOUD NETWORK CARDS
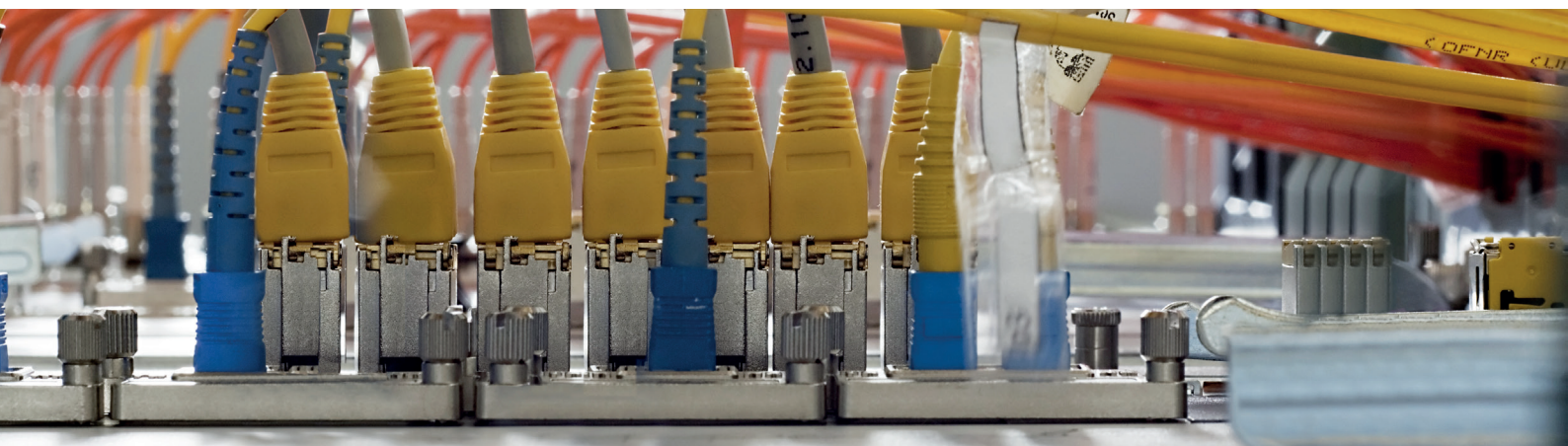
Ordered closure of servers / MQTT IOT

NIMBUS cloud / Ethernet / SNMP Network Cards: The best add-ons to protect your computer network

In case of any electrical problem - supply cut, voltage peak or line drop - the main function of an Uninterruptible Power Supply (UPS) is to protect the connected loads and continue supplying power to your computer network, either from the batteries or by voltage regulation. New IoT technologies, based on communications through MQTT channels, allow us to have a WEB application in the CLOUD so we can manage our equipment from anywhere with an Internet connection.

It is very important to monitor the UPS to see whether it is working properly at all times, so that it can notify us of its correct operation and/or manage the complete and ordered closure of our private computer network. This is why the installation of a local Ethernet Network card in the UPS or a NIMBUS Card is necessary, so that it can autonomously manage the different functions required by our computer network.

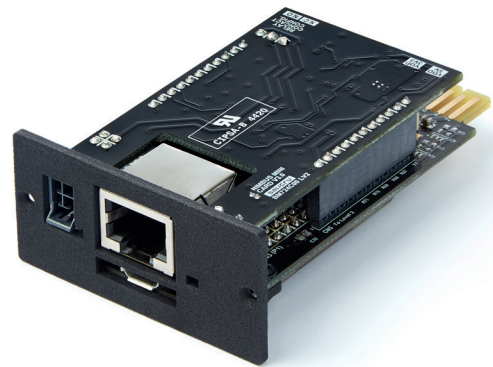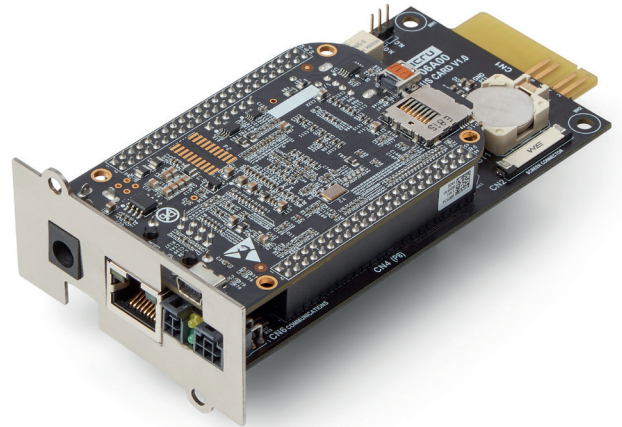Salicru offers a complete range of Ethernet/SNMP/NIMBUS network cards to meet our customers' requirements.

SALICRU

Nimbus Adapter / SNMP web adapter

Salicru's **NIMBUS** cards are designed and developed to offer different communication services to **Salicru's** customers. Its Linux Embedded operating system allows simultaneous management of 'Panel Web, Telemonitoring, SNMP, Modbus TCP and Server Shutdown' services.
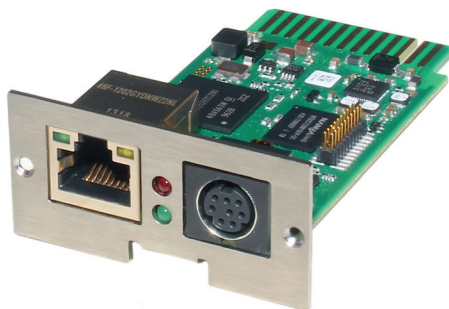
It includes the following features:

- Remote upgrade: to manage new UPS models and additional services. (IoT connection required for all models)

- Panel Web: visualisation of the available measurements, variables and alarms using a block diagram.

- Telemonitoring: Salicru's cloud connection functionality.

- SNMP: compatibility with UPS in accordance with the RFC1628 standard, for monitoring via Nagios software, Zabbix, etc.

- MODBUS TCP: display of measurements, variables and alarms for connection to PLC or SCADA software.

- Server shutdown: sending shutdown orders, using RCCMD (optional) software.

Ethernet Adapter / SNMP WEB Adapter

The functions incorporated in these cards will be able to satisfy the most demanding requirements of IT administrators. They are quick to configure, which facilitates your work, have extensive options for monitoring and personalisation of events, complete off/on options (wake on lan) of our physical or virtual server farm, SNMP (v2, v3) and MODBUS gateway (tcp), special mention in the field of security allowing the use of SSL through digital certificates belonging to the client.

They also allow the connection and management of temperature / humidity probes, SMS sending via a GSM modem, and management of voltage-free contacts.

"Basic" Ethernet Adapter / SNMP WEB Adapter

This low cost card allows basic local monitoring in the form of a table, automatic and non-customisable sending of e-mails and static event management. It is recommended for management using third-party software through SNMP (Nagios, Zabbix, Pandora, Prtg, OpenView, Tivoli, etc).
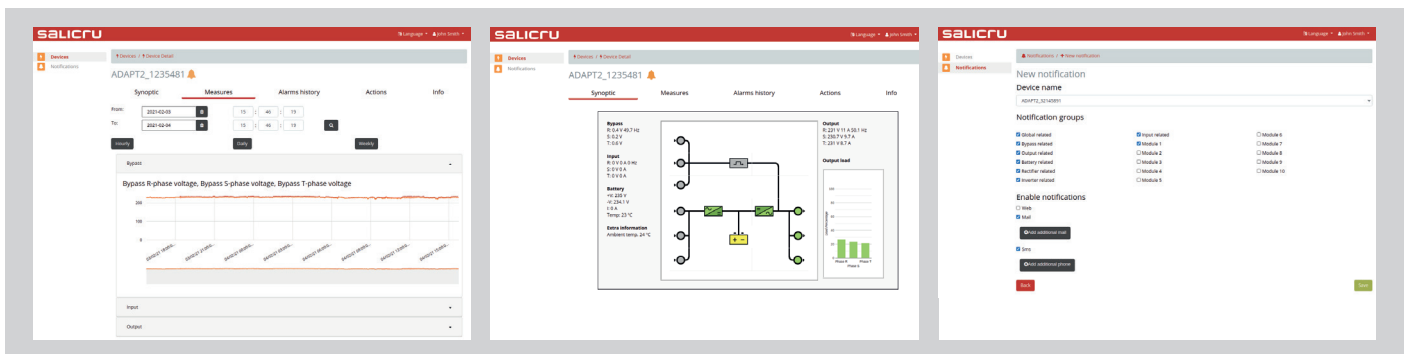
Nimbus Cloud, remote monitoring system, with 24/7 availability

Modern companies run their systems 365 days a year, and therefore require total electrical protection. Salicru equipment featuring the **NIMBUS** remote monitoring service offers a perfect complement to the service of the most demanding customers.

The **NIMBUS** remote monitoring system is comprised of 3 systems: the Nimbus Card (Embedded Linux Systems) housed inside the Salicru equipment and connected to the Internet either via the customer's corporate network or optionally via 3G/4G router; the Nimbus Cloud, a

system that collects, organises and distributes the sensors and alarms sent by the Salicru equipment; and Salicru's team of Technical Support Service engineers who offer a 24/7 service providing answers to any questions that the customer may have.

The Nimbus Card is based on the latest IoT technologies, featuring channel connection via MQTT and historical data collection via InfluxDB.
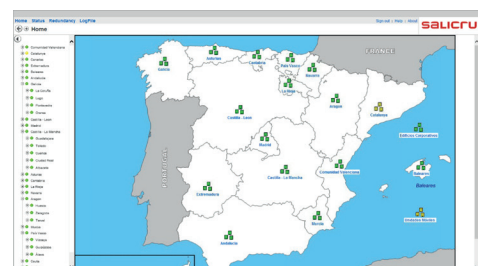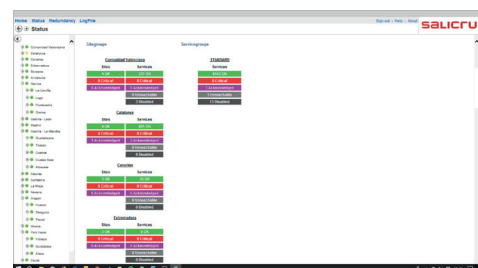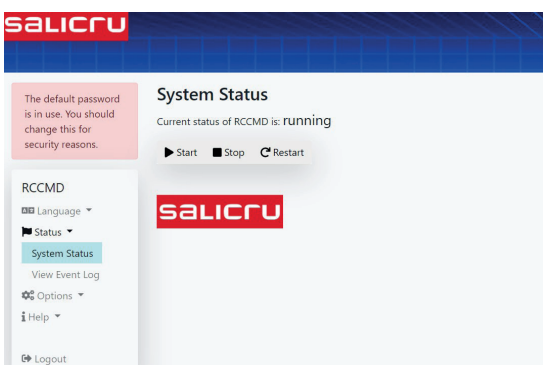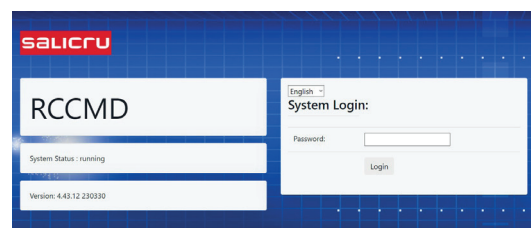

RCCMD: Remote shutdown application

Software agent for most physical/virtual operating systems. The different actions (shutdown, message, action) are executed by customisable scripts, after receiving the order from the Ethernet Adapter / SNMP WEB Adapter. Compatible with most operating systems, including virtual systems (vmware, citrix and hyperv).

Software licensed by a physical server to be managed. Each adapter includes a license. For more servers, additional licenses must be purchased. It offers the SSL security option.

UNMS II: Unlimited Salicru's UPS management

Software for centralised monitoring of a large fleet of UPS installed in our company. The **UNMS II** is installed as a WEB service to facilitate monitoring and management. The **UNMS II** is a scalable software that has different licensing levels according to the equipment to be monitored, from the basic and free level, of 9 UPS devices, to installations of more than 2,500.

salicru

DESCRIPTION	NIMBUS ETHERNET ADAPTER/ SNMP WEB ADAPTER	ETHERNET ADAPTER / SNMP WEB ADAPTER	BASIC ETHERNET ADAPTER / SNMP WEB ADAPTER
Compatible with all series featuring Salicru slots	According to the lower compatibility list	Yes	No
Easy configuration assistant	Self configurable	Yes	No
Data visualisation	Graph, block diagram	Graph, block diagram	Table
Connection to the Salicru Cloud (IoT – MQTT)	Yes, for all compatibles series [1]	No	No
Ordered shutdown of servers	Yes, due to power failure and low battery alarm via RCCMD (optional) Software, for most physical / virtual Operating Systems	Yes, event activation by RCCMD software for most physical / virtual operating systems	Basic for Windows / Linux
SMTP configuration	Yes	Configurable, enables encryption, port customisation	Standard
Email notifications	Automatic, non-customizable text / message	Automatic and/or allows for customisation of alerts to be sent, and at what time	Automatic, non-customisable
SMS notifications	Yes (SMS sending via the cloud)	Yes (via optional modem)	No
Push notifications	Yes (Webserver)	No	No
Customisable events according to UPS values / measurements	No	Yes	No
SNMP compatibility	SNMP V2	SNMP V2 and V3	SNMP V2
MIB file compatibility	RFC1628, and private MIBs	RFC1628, and private extensions	RFC1628, and private extensions
History of events and measurements	Events and measures in graphical table, exportable to excel for DC power-S	Customisable, viewing of text and graphs, allows export to Excel	Events and measures in a table
API REST protocol	Yes	Yes	No
MODBUS protocol	TCP and RS232	TCP and RS232	No
BACnet protocol	No	Yes	No
IEC61850 protocol	Yes (DCS only)	No	No
LonWork, ProfiBus protocol	No	Yes, requires optional	No
Remote SysLog	No	Yes	No
Secure access	2 levels of access, Engineer, Guest, SSH secure access	Via Configurable Login and Password	No
Manageable relays option	No	Yes	No
Optional Temperature / Humidity Probe	No	Yes	No
Firmware Upgrade	Yes	Yes	Yes
Remote Firmware Upgrade	Yes (IoT connection required)	No	No

(1) Check for SLC TWIN PRO2 A and SLC TWIN RT2 A models

COMPATIBILITY BY SERIES	NIMBUS ETHERNET ADAPTER/ SNMP WEB ADAPTER	ETHERNET ADAPTER / SNMP WEB ADAPTER	BASIC ETHERNET ADAPTER / SNMP WEB ADAPTER
SLC TWIN PRO2 A	●	●	●
SLC TWIN PRO2 T UL	●	●	–
SLC TWIN RT2 A	●	●	●
SLC TWIN RT2 T UL	●	●	–
SLC CUBE 3+ A	●	●	–
SLC X-PERT	●[1]	●	–
SLC X-TRA	●[1]	●	–
SLC ADAPT / 2 A	●	●	–
DC POWER S / DC POWER L	●	–	–
EMI 3	●	–	–

● Compatible   – No compatible

(1) Optional RS485 required

Information subject to change without notice.

+34 938 482 400 WWW.SALICRU.COM

Avda. de la Serra 100 · 08460 Palautordera España · salicru@salicru.com

SALICRU