

87045 LIMOGES Cedex

Telephone: (+33) 05 55 06 87 87 - Fax: (+33) 05 55 06 88 88

Network interface type CS121

3 108 81 - 3 108 82 - 3 108 83 - 3 108 84 - 3 109 06 - 3 109 07









3 108 84

3 109 06

3 109 07 3 108 81 3 108 82 3 108 83

1. FEATURES

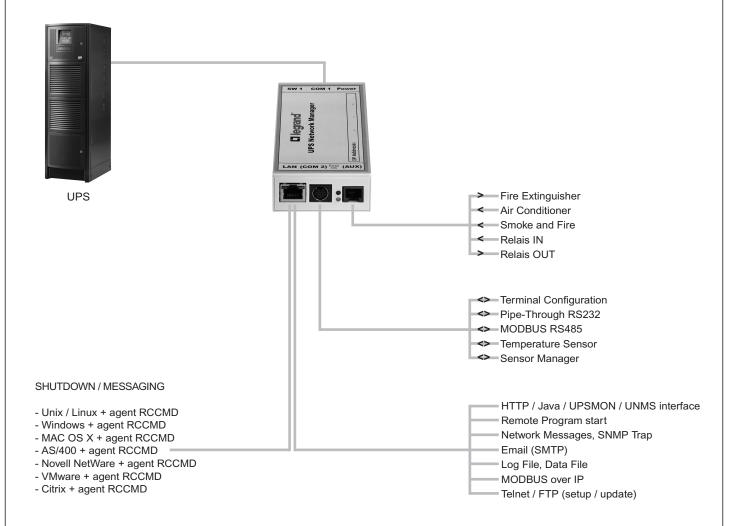
- High-Tech made: 32-Bit RISC-Processors, 10/100 Mbit autosensing Ethernet, 2 serial RS-232 interfaces (not "B" version), AUX port for 4 dry-contact external alarms output/input (not "B" version). Optional: MODBUS RS 485 interface.
- Scheduler: Web server based Scheduler allows scheduled on/off
 of the UPS output or SITESWITCH receptables or to start battery
 tests. This secures that the UPS runs regularly battery tests and
 informs the user about problems via Email, logfile, etc.
- Graphical and non-graphical interfaces: Several options are available for monitoring and configuring the adapter both visual: Windows UPSMON, JAVAMON, UNMS, every type of SNMP network management station, internet browsers and non-visual: TELNET, FTP. Additionally supported is the GENEREX API. The statistical analysis is graphically shown through the GCHART plugin for the Microsoft Internet Explorer. Those statistics show the values of the UPS and all connected external devices like temperature, humidity, etc.
- Multiserver Shutdown: Unlimited shutdown manager for RCCMD clients for more than 40 different operating systems. This makes it possible for a CS121 adapter to inform and shutdown any type of computer in a given network which can then be used to centralise the administration of large networks while greatly reducing both the amount of organisational work and the amount of consumed network time for communications. Different methods are available for conducting shutdowns and system start
 - 1. Coldboot (Computers are directly cut-off from or connected to the power supply. This option may require a SiteSwitch).
 - Warmboot (Using RCCMD operating systems are prompted to shutdown or restart).
 - 3. Wake on LAN (Using data packages other computers in a local network are prompted to start-up).
- Log book: Measurement values and alarms are written with time stamps into the non-volatile storage of the CS121 adapter. The time synchronisation function insures that all protocols are written with precise time values.
- Graphical operation and statistics: The CS121 WEB-Server provides its users with a simple to use overview for a broad range of functionality within its monitoring and configuration capabilities. The CS121 adapter also has the highest performing graphical analysis tool in its class for dynamic data evaluation.
- Network Services: UPSMAN compatible software for Alarm management. Supports SNMP, HTTP, Telnet, ARP, TCP, UDP, DNS, SMTP, NTP, FTP, UPSTCP (UPSMON, UNMS), RCCMD, RCCMD2 (Multiserver/Multi-OS shutdown/messaging tool).

Standard basis for the new UNMS 2 network management system.

- Email: Integrated Email client via SMTP can be configured to relay either all or select UPS messages. The Email client can also make use of network messaging options for distributing information or use network internal email facilities. Compatible with SMTP email systems such as MS Exchange, Lotus, and many others.
- SNMP I HP OpenView: Includes free Snap-In for HP OpenView for Windows. The CS121 supports the RFC1628 MIB (Standard UPS MIB) and MIB extensions for use with the SITEMANAGER, SITESWITCH 4, and SENSOR MANAGER. This enables the CS121 adapter to make all of its gathered information from other devices available via SNMP and this has been tested with Sun Net Manager, IBM NetView, Tivoli, Unicenter, Cabletron Spectrum, ManageWise, Castle Rock and many other SNMP based network management systems. Additionally Ipswitch Whats UP 6 and HP/COMPAQ InsightManager are supported.

Network interface type CS121

2. FUNCTION OVERVIEW



Picture: function overview of the CS121. The CS121 B is an economic version of CS121 and has no COM2 (sensors, modbus, Pipe-Through, Terminal configuration) and AUX (dry contact interface). Beside this the CS121 B is identical to the full qualified CS121.

3. TECHNICAL DATA

Technical data	CS121 / CS 121 B "External"	CS121 / CS 121 B "External"
Power supply	9 ÷ 36V DC, 350 mA	9 ÷ 36V DC, 150 mA
Size, weight	69 x 126 mm, 210 g	60 x 120 mm, 66 g
Ethernet	10 / 100 Mbit Base-T auto sense	10 / 100 Mbit Base-T auto sense
RS-232 interface	2 (only 1 in "B" version)	2 (only 1 in "B" version)
RS-485 interface	Optional (not for "B" version)	Optional (not for "B" version)
MODBUS over IP	Yes (not for "B" version)	Yes (not for "B" version)
Status LED's	Normal green, boot/error red	Normal green, boot/error red
User manual	English, German	English, German
MIB	RFC 1628 and private extension	RFC 1628 and private extension
Operating temperature / humidity	0 ÷ 40 °C 10 ÷ 80 %, not condensated	0 ÷ 60 °C 10 ÷ 80 %, not condensated
Certifications	CE, UL	CE, UL
Warranty	2 years	2 years

s 📮 legrand



87045 LIMOGES Cedex

Phone: (+33) 05 55 06 87 87 - Fax: (+33) 05 55 06 88 88

Network interface

type CS141

3 109 30 - 3 109 31 - 3 109 32 - 3 109 33 - 3 109 34 - 3 109 35





3 109 33 - CS141B



CS141 Professional

3 109 32 - CS141



CS141 Industrial

3 109 34 - CS141M



3 109 31 - CS141B SK



3 109 30 - CS141 SK



3 109 35 - CS141M SK

FEATURES

· High-Tech made in Germany and in the USA

ARM Cortex A8 processor, 10/100 Mbit auto-sensing Ethernet. The "Industrial" version of the device is available with RS485.

· Graphical interfaces

Several options are available for monitoring and configuring the CS141: internet browsers, UNMS II and every type of SNMP, MODBUS and BACnet management system. The statistical analysis of all connected devices are graphically shown through the web browser. These statistics show the values of the UPS and all connected external devices like temperature, humidity, etc. Firmware updatable via drag & drop.

Data logging

Measurement values and alarms are written with time stamps into the non-volatile storage of the CS141 adapter. The time synchronization function through NTP insures that all data are written with precise time values.

Scheduler

Web server based scheduler allows scheduled on/off of the UPS output, send shutdown commands or start battery tests. This secures that the UPS runs regularly battery tests and informs the user about problems via email, log file, etc.

• Email

The integrated email client via SMTP can be configured to relay either all or only specific messages. The email client can use public email servers and local email servers to distribute the information.

• Email Trap for UNMS II Remote Monitoring Software

Every CS141 can send its data packages via "Email Trap" to the UNMS II Software (when it's equipped with TELESERVICE optional module). Thereby you can arrange a remote monitoring via email, without compromising the customers network security systems. All measuring values and graphics are visible on the UNMS II at any time.

· Multi Server Shutdown

Unlimited shutdown manager for RCCMD clients - for more than 40 different operating systems. This makes it possible for a CS141 adapter to inform and shutdown any type of computer in a given network which can then be used to centralize the administration of large networks while greatly reducing both the amount of administrative work and the amount of network traffic.

Network Services

The CS141 supports SNMP v2 and v3, IPv4 and IPv6, HTTP, HTTPS, DNS, DHCP, SMTP, NTP, SFTP, UPSTCP (UNMS), MODBUS over IP, MODBUS over RS232/485 and RCCMD (Multiserver and Multi-OS shutdown / messaging tool, BACnet IP, Wake ON-LAN).

SNMP v2 and v3

The CS141 supports the RFC1628 MIB (standard UPS MIB) and MIB extensions for use with the temperature/humiditysensors and with the SensorManager II device. This enables the CS141 adapter to make all of its gathered information from other devices available via SNMP. All SNMP based network management systems are supported.

MODBUS

All of the CS141 adapters are equipped with MODBUS over IP, which enables the CS141 to incorporate PLC devices or any other MODBUS based management system.

The "Professional" version also provide MODBUS RS232. The "Industrial" version also provide MODBUS RS485.

BACnet

All CS141 adapters support the BACnet over IP protocol, which allows the UPS to integrate seamlessly into any BMS management system..

GSM Modem

Support for GSM modem through COM2 for transmitting alarm messages (SMS).



Phone: (+33) 05 55 06 87 87 - Fax: (+33) 05 55 06 88 88



Network interface

type CS141

3 109 30 - 3 109 31 - 3 109 32 - 3 109 33 - 3 109 34 - 3 109 35

2. FUNCTION OVERVIEW OF THE CS141 STANDARD



RS232 / Slot SNMP



CS141 B or CS141 B SK

- SHUTDOWN
- COMMANDS
- MESSAGES
- Unix / Linux + agent RCCMD
- Windows + agent RCCMD
- MAC OS X + agent RCCMD
- AS/400 + agent RCCMD
- VMware + agent RCCMD
- Citrix + agent RCCMD

- HTTP/HTTPS/UPSMON/UNMS
- · Remote programs start
- SNMP/SNMPtrap
- E-mail
- MODBUS over IP
- BACnet IP
- · Configuration / Firmware update
- · Logfile, Historic Data file

3. TECHNICAL DATA OF THE CS141 STANDARD

Technical data	CS141B (external version)	CS141B SK (internal version)	
Power supply	12V (min. 9V, max 30 V DC)	150 mA 12V (min. 9V, max 30 V DC), 150 mA	
Size (W x D x H)	Weight 69 x 126 x 35 mm, 210 g	10 g 60 x 120 x 29 mm, 66 g	
Ethernet	10/100 Mbit Base-T auto sense	10/100 Mbit Base-T auto sense	
Status LEDs	Normal green, boot/error red	Normal green, boot/error red	
RS232 Interface	1	1	
USB Interface	1	-	
MODBUS over IP	Yes	Yes	
SNMPMIB support	MIB RFC 1628 and private extensions	MIB RFC 1628 and private extensions	
BACnet IP	Yes	Yes	
Operating temperature	0 ÷ 70 °C	0 ÷ 70 °C	
Storage temperature	0 ÷ 70 °C	0 ÷ 70 °C	
Max. recommended ambient temperature	55 °C	55 °C	
Humidity	20 ÷ 95 °C, non condensing	20 ÷ 95 °C, non condensing	
CPU	ARM Cortex A8 800 MHz	ARM Cortex A8 800 MHz	
Flash memory	512 MB	512 MB	
RAM memory	128 MB DDR3	128 MB DDR3	
Certifications	CE, UL / NEMKO	CE, UL / NEMKO	



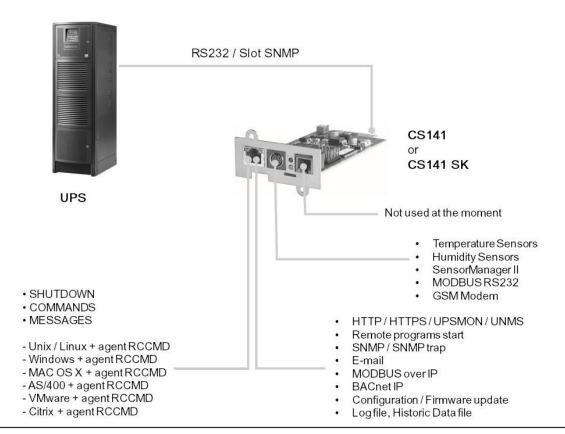
Phone: (+33) 05 55 06 87 87 - Fax: (+33) 05 55 06 88 88

Network interface

type CS141

3 109 30 - 3 109 31 - 3 109 32 - 3 109 33 - 3 109 34 - 3 109 35

2. FUNCTION OVERVIEW OF THE CS141 PROFESSIONAL



3. TECHNICAL DATA OF THE CS141 PROFESSIONAL

Dati Tecnici	CS141 (versione esterna)	CS141 SK (versione interna)	
Power supply	12V (min. 9V, max 30 V DC), 150 mA	12V (min. 9V, max 30 V DC), 150 mA	
Size (W x D x H)	69 x 126 x 35 mm, 210 g	60 x 120 x 29 mm, 66 g	
Ethernet	10/100 Mbit Base-T auto sense	10/100 Mbit Base-T auto sense	
Status LEDs	Normal green, boot/error red	Normal green, boot/error red	
RS232 Interface	2	2	
USB Interface	1	-	
MODBUS over IP	Yes	Yes	
SNMPMIB support	MIB RFC 1628 and private extensions	MIB RFC 1628 and private extensions	
BACnet IP	Yes	Yes	
Operating temperature	0 ÷ 70 °C	0 ÷ 70 °C	
Storage temperature	0 ÷ 70 °C	0 ÷ 70 °C	
Max. recommended ambient temperature	55 °C	55 °C	
Humidity	20 ÷ 95 °C, non condensing	20 ÷ 95 °C, non condensing	
CPU	ARM Cortex A8 800 MHz	ARM Cortex A8 800 MHz	
Flash memory	512 MB	512 MB	
RAM memory	128 MB DDR3	128 MB DDR3	
Certifications	CE, UL / NEMKO	CE, UL / NEMKO	



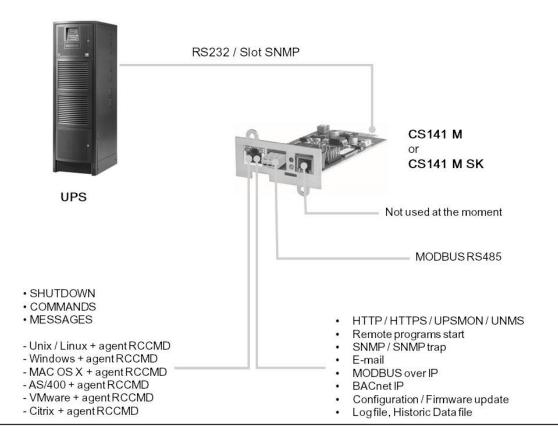
Phone: (+33) 05 55 06 87 87 - Fax: (+33) 05 55 06 88 88

Network interface

type CS141

3 109 30 - 3 109 31 - 3 109 32 - 3 109 33 - 3 109 34 - 3 109 35

2. FUNCTION OVERVIEW OF THE CS141 INDUSTRIAL



3. TECHNICAL DATA OF THE CS141 INDUSTRIAL

Dati Tecnici	CS141M (versione esterna)	CS141M SK (versione interna)	
Power supply	12V (min. 9V, max 30 V DC), 150 mA	12V (min. 9V, max 30 V DC), 150 mA	
Size (W x D x H)	69 x 126 x 35 mm, 210 g	60 x 120 x 29 mm, 66 g	
Ethernet	10/100 Mbit Base-T auto sense	10/100 Mbit Base-T auto sense	
Status LEDs	Normal green, boot/error red	Normal green, boot/error red	
RS232 Interface	1	1	
USB Interface	1	1	
MODBUS over IP	1	-	
SNMPMIB support	Yes	Yes	
BACnet IP	MIB RFC 1628 and private extensions	MIB RFC 1628 and private extensions	
Operating temperature	Yes	Yes	
Storage temperature	0 ÷ 70 °C	0 ÷ 70 °C	
Max. recommended ambient temperature	0 ÷ 70 °C	0 ÷ 70 °C	
Humidity	55 °C	55 °C	
CPU	20 ÷ 95 °C, non condensing	20 ÷ 95 °C, non condensing	
Flash memory	ARM Cortex A8 800 MHz	ARM Cortex A8 800 MHz	
RAM memory	512 MB	512 MB	
Certifications	128 MB DDR3	128 MB DDR3	
Power supply	CE, UL / NEMKO	CE, UL / NEMKO	



87045 LIMOGES Cedex

Phone: (+33) 05 55 06 87 87 - Fax: (+33) 05 55 06 88 88

Network interface type CS101

3 109 38



TA	Page	
1.	Features	1
2.	Functions overview	1
3.	Technical data	1

1. FEATURES

Architecture

ARM9 180 MHz 32 bit processor, 8 MB flash memory, 10/100 Mbit auto-sensing Ethernet.

· Multi-language user interface

The web pages of the CS101 support the following languages: german, english, french, italian, spanish, polish, portuguese, russian, turkish. Each web page includes a dedicated online help.

· Graphical interfaces

Several options are available for monitoring and configuring the CS101: internet browsers, every type of SNMP or MODBUS network management system and UNMS/UNMS II software.

The statistical analysis of the UPS's values are graphically shown through the web browser. Firmware updatable.

Data logging

Measurement values, alarms and battery test are written with time stamps into the non-volatile storage of the CS101 adapter. The time synchronization function through NTP insures that all the data are written with precise time values.

Scheduler

Web server based scheduler allows scheduled on/off of the UPS or start battery tests.

This secures that the UPS runs regularly battery tests and informs the user about problems via email, log file, etc.

Events notification

The CS101 can be configured to relay either all or only specific alarms via Email or TRAP messages.

The email client can use public email servers and local email servers.

Multi-Server shutdown

The "CS101 Shutdown Client" software, installed on each computer powered to the UPS, allows the execution of a safe shutdown in case of necessity.

Available for Windows (Vista and higher) and Linux. Different methods are available for shutdown and restart the

- systems:
 CS101 Shutdown Client: the operating systems are prompted to shutdown
- Wake on LAN: the computers in a local network are prompted to start-up.

· Network services

CS101 supports SNMP, IPv4, IPv6, HTTP, HTTPS, DNS, DDNS, DHCP, Telnet, SMTP, SNTP, SSL, SSH, BOOTP, Wake on LAN, MODBUS over IP.

SNMP v1, v2 and v3

CS101 supports the RFC1628 MIB and PPC MIB.
This enables the CS101 adapter to be connected to every SNMP based network management systems.

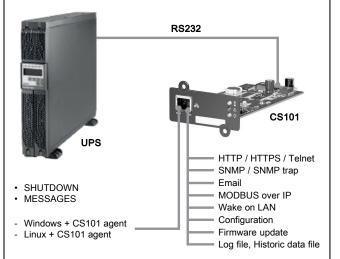
MODBUS

CS101 is equipped with MODBUS over IP, which enables the CS101 to incorporate PLC devices or any other MODBUS based management system.

· UPS supported

- Daker DK
- Daker DK Plus
- Keor Line RT
- Keor LP
- Keor S
- Keor T

2. FUNCTIONS OVERVIEW



3. TECHNICAL DATA

Parameter	Value	
Power supply	5,3V ÷ 40V, 2W max	
Dimensions (W x D x H), Weight	60 x 120 x 29 mm, 66 g	
Ethernet	10/100 Mbit auto sense	
Status LED's	Normal, boot/error	
SNMP support	PPC.MIB and RFC1628.MIB	
Operating temperature	0 ÷ 70 °C	
Storage temperature	0 ÷ 70 °C	
Max. recommended ambient temperature	55 °C	
Humidity	20 ÷ 95 °C, not condensated	
CPU	CPU ARM9 180 MHz, 32 bit	
Flash memory	8 MB	
Certification	CE	