UCM-95
ADSL2+ Ethernet Gateway

Data Sheet

BRODERSEN
simplifying systems

HARDWARE SPECIFICATIONS

Hardware and I/Os:

-	ADSL Port:	RJ11, ADSL/ADSL2/ADSL2+
-	LAN (Ethernet) Port:	RJ45, 10/100 Mbit/s full/half duplex auto sense
-	Power Supply:	Pins 1-3 of 5-pin pluggable terminal block, 24VDC
-	RST Input:	Pins 4-5 of 5-pin pluggable terminal block, to reset or remote on/off
-	On/Off button:	To switch modem on/off
-	Reset button:	Reset to default configuration
-	LED Indicators:	POWER, ON, ETHERNET, DSL, INTERNET

Power Supply

-	Nominal input voltage:	24VDC
-	Absolute maximum input range:	20-35VDC
-	Input frequency:	DC
-	Power consumption:	1.3W (Typ.)
-	Isolation:	1000 VDC

Environmental

-	Operating temperature:	0°C to 50°C
-	Storage temperature:	-20°C to 60°C
-	Humidity:	20% to 90% RH (Non-condensing)

General

-	Protection:	IP20
-	Mounting:	DIN rail
-	Housing:	Black corrosion protected aluminium housing
-	Dimensions (WxHxD):	44mmx95mmx93mm
-	Weight:	0.5kg (Approx.)

LED Indicators:

-	POWER (front side):	Indicating input power
-	ON (left side):	Indicating modem On/Off and Ready/Fault status
-	ETHERNET (left side)::	Indicate LAN connection status
-	DSL (left side)::	Indicating DSL line status
-	INTERNET (left side)::	Indicating Internet status

SYSTEM SPECIFICATIONS

ADSL Compliance
- Support multi-mode standard (ANSI T1.413, Issue 2; G.dmt (G.992.1); G.lite (G992.2))
- EOC specified in ITU-T G.992.1
- ADSL2 G.dmt.bis (G.992.3)
- ADSL2 G.lite.bis (G.992.4)
- ADSL2+ (G.992.5)
- Reach Extended ADSL (RE ADSL)

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ATM Protocol
- ADSL physical connection ATM AAL5 (ATM Adaptation Layer Type 5)
- Support multi-protocol over AAL5 (RFC1483/2684)
- Support VC-based and LLC-based multiplexing
- Support up to 8 PVCs
- Support PPP over ATM AAL5 (RFC2364)
- PPP over Ethernet support for DSL connection (RFC 2516)
- I.610 F4/F5 OAM loop-back

Network Protocols
- IP routing
- 802.1d transparent bridging
- IGMP v1&v2
- RIP-1/RIP-2
- ICMP
- TCP/UDP
- DHCP client/server/relay
- DNS proxy
- Dynamic DNS
- UPnP support
- NAT

Management
- FTP for firmware and configuration
- Configuration backup/restore
- Remote management control: Telnet, FTP, and WebUI
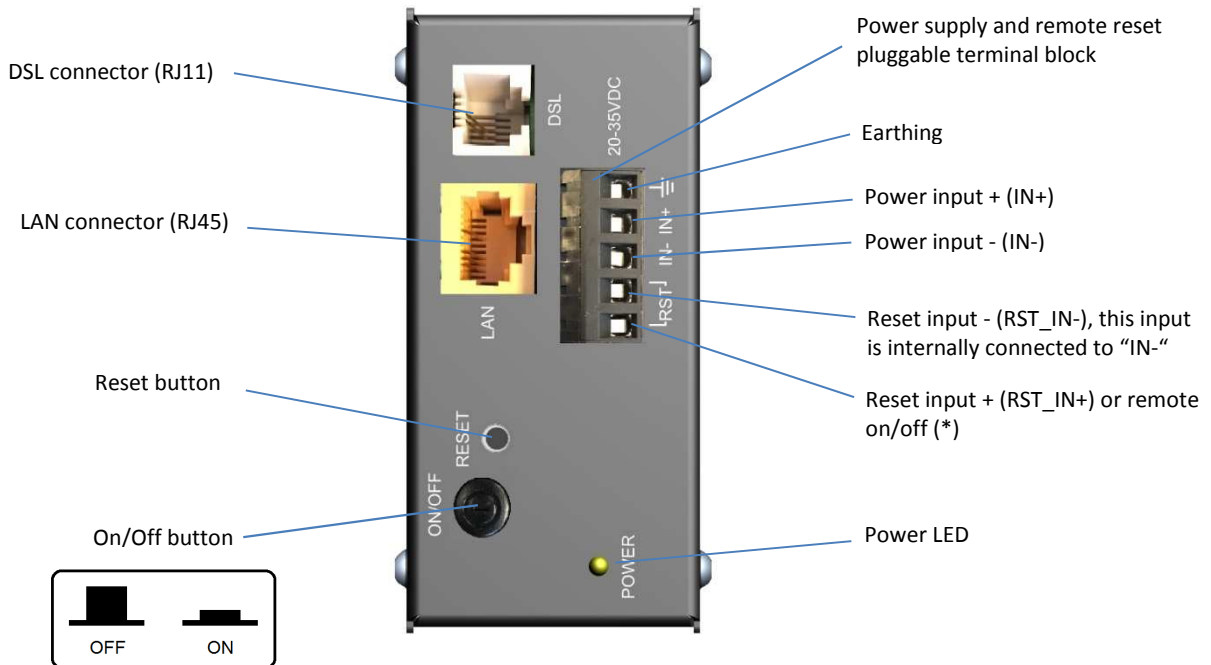- SNMP support
- TR-069 compliance

DEFAULT LOGIN DETAILS
- IP address: http://192.168.1.1
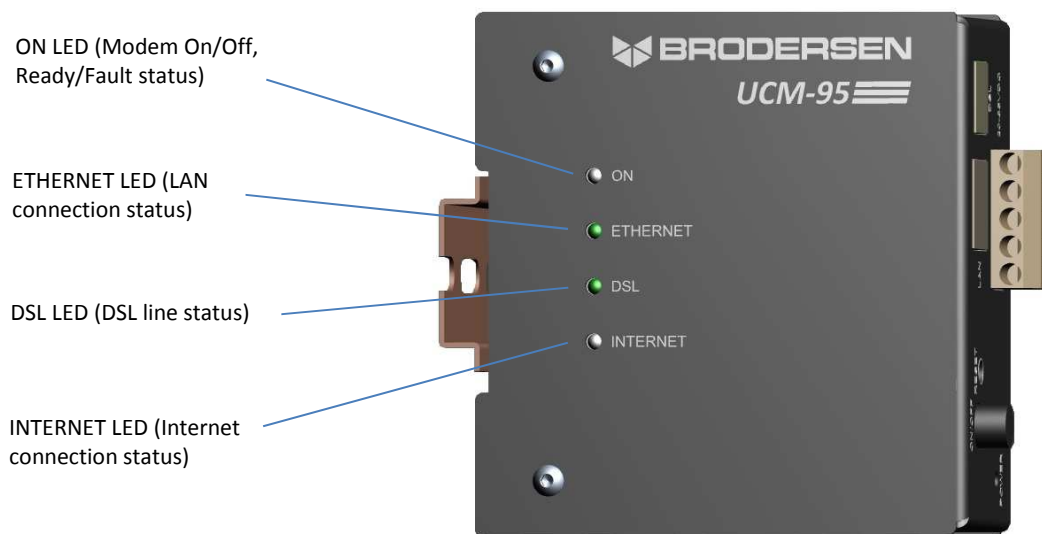- User name: admin
- Password: 1234

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INTERFACE OVERVIEW

Front view:

DSL connector (RJ11)

LAN connector (RJ45)

Reset button

On/Off button

OFF   ON

Power supply and remote reset pluggable terminal block

Earthing

Power input + (IN+)

Power input - (IN-)

Reset input - (RST_IN-), this input is internally connected to "IN-"

Reset input + (RST_IN+) or remote on/off (*)

Power LED

(*): To reset or remotely switch modem on or off, "RST_IN+" should be connected to "RST_IN-".

Left view:

ON LED (Modem On/Off, Ready/Fault status)

ETHERNET LED (LAN connection status)

DSL LED (DSL line status)

INTERNET LED (Internet connection status)

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LED Descriptions

LED	Status & Color	Description
Power	On - Yellow	The modem is receiving power from its main power connector.
	Off	The modem is not receiving power or forced off by connecting RST inputs together.
ON	On - Green	The modem is on and receiving power correctly and ready for use.
	Blinking - Green	The modem is self-testing.
	On - Red	The modem has failed from power self-testing or there is malfunction.
	Off	The On/Off button is in Off state or the modem is not receiving power.
ETHERNET	On - Green	The modem has an Ethernet connection with a device on the LAN.
	Blinking - Green	The modem is sending/receiving data to/from the LAN.
	Off	The modem does not have an Ethernet connection with the LAN.
DSL	On - Green	The DSL line is up.
	Blinking - Green	The modem is initializing the DSL line.
	Off	The DSL line is down.
INTERNET	On - Green	The modem has an IP connection but no traffic.
	Blinking - Green	The modem is sending or receiving IP traffic.
	On - Red	The modem attempted to make an IP connection but failed.
	Off	The modem does not have an IP connection.

RST Inputs

The two last pins of the 5-pin pluggable terminal block on the front side of the modem (RST_IN- and RST_IN+) are used for remote reset or remotely switching modem on and off. Reset input - (RST_IN-) is internally connected to Power_IN- (or GND). For normal operation, the Reset input + (RST_IN+) shall not be connected. If the RST input pins (RST_IN+ and RST_IN-) are connected at the same time, the modem will turn off and the POWER LED on the front side will go to off-state. A free contact output can be connected between the RST input pins (RST_IN+ and RST_IN-) to enable remote command for modem power on/off or reset.

RESET Button

Sets the modem to factory default configuration and resets password to default ("1234").
In order to use the Reset button:
- Make sure the ON LED is on (not flashing)
- Press RESET button for 10 seconds or until the ON LED begins flashing. Release the button and the modem restarts.

On/Off Button

Switches the modem on and off. For normal operation, the on/off button is always in ON mode.

WAYS TO MANAGE THE UCM-95 MODEM

Access, Monitoring, and Management:
- Web Configurator: Recommended for normal management of the modem using a web browser
- Command Line Interface: Used mainly for troubleshooting
- FTP: For firmware upgrades and configuration backup/restore
- SNMP: The device can be monitored by an SNMP manager
- TR-069: Auto-configuration server for remote configuration

Security and Operation:
- Apply password management
- Back up and save the modem configuration

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INSTALLATION

To install the modem, do the following steps:
- Connect the DSL cable to the DSL RJ11 jack
- Connect the Ethernet cable to the LAN RJ45 jack
- Connect a free contact output to the RST inputs of the pluggable terminal block for remote power on/off and reset (Optional)
- Connect power to the power inputs of the pluggable terminal block
- Set On/Off button to ON mode

WEB CONFIGURATION AND TECHNICAL REFERENCE

For more detailed information (e.g. web configuration, technical reference, etc.) follow the URL:
ftp://ftp.zyxel.com/AMG1001-T10A/user_guide/AMG1001-T10A_1.pdf

NOTE:
This data sheet is subject to change without notice.

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