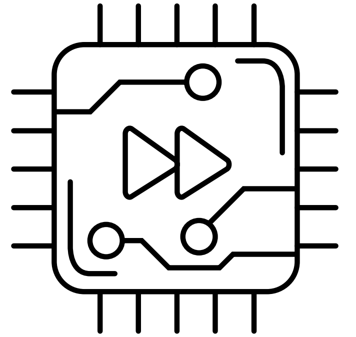
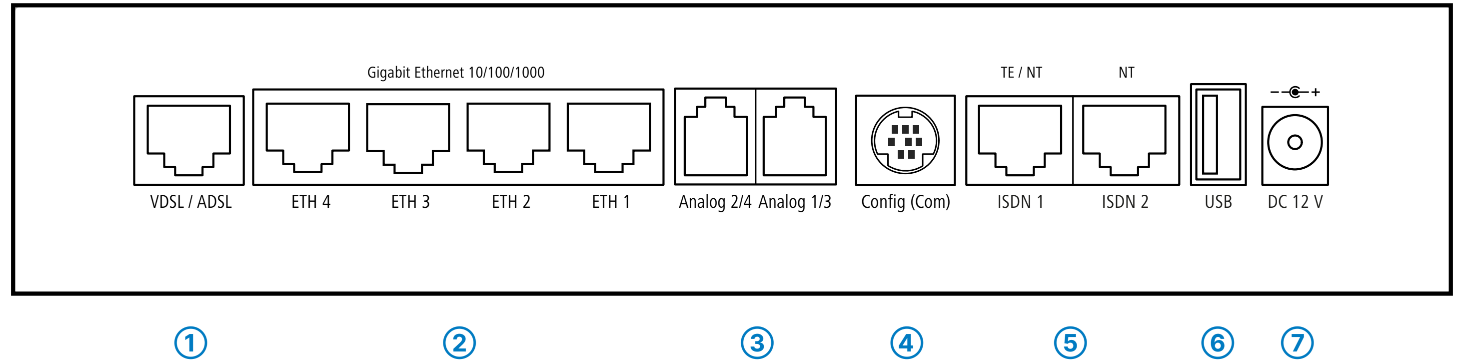
Hardware Quick Reference

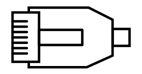
LANCOM 1793VAW

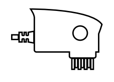




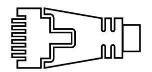
Mounting & connecting

① **VDSL / ADSL interface**
Use the supplied DSL cable for the IP-based line to connect the VDSL interface and the provider's telephone socket. For more information, please contact your Internet service provider.

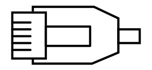




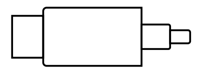
② **Ethernet interfaces**
Use an Ethernet cable to connect one of the interfaces ETH 1 to ETH 4 to your PC or a LAN switch.



③ **Analog interfaces**
Connect analog terminal devices to the analog interfaces either directly via RJ11, or with the help of the enclosed TAE adapters.
Further adapters are optionally available.

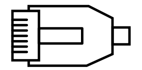


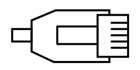
④ **Configuration interface**
Use a serial configuration cable to connect the serial interface (COM) to the serial interface of the device you want to use for configuring / monitoring (separately available).



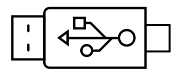
⑤ **ISDN interfaces**
ISDN 1:
Internal (NT) or external (TE) ISDN bus.
This feature is controlled by LCOS.
ISDN 2:
Internal (NT) ISDN bus.

A 100-Ohm resistor for line termination is switchable in LCOS.

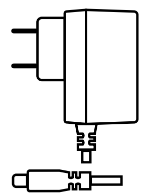




⑥ **USB interface**
You can use the USB interface to connect a USB printer or a USB memory stick.



⑦ **Power**
After connecting the cable to the device, turn the bayonet connector 90° clockwise until it clicks into place. Use only the supplied power adapter.

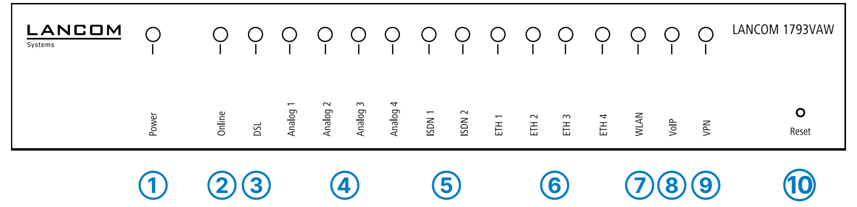


Before initial startup, please make sure to take notice of the information regarding the intended use in the enclosed installation guide!

Operate the device only with a professionally installed power supply at a nearby power socket that is freely accessible at all times.

Please observe the following when setting up the device
→ The power plug of the device must be freely accessible.
→ For devices to be operated on the desktop, please attach the adhesive rubber footpads
→ Do not rest any objects on top of the device
→ Keep all ventilation slots on the side of the device clear of obstruction
→ In case of wall mounting, use the drilling template as supplied
→ Rack installation with the optional LANCOM Rack Mount (separately available)

LED description & technical details



① Power

Off	Device switched off
Green, permanently*	Device operational, resp. device paired / claimed and LANCOM Management Cloud (LMC) accessible
Red / green blinking	Configuration password not set. Without a configuration password, the configuration data in the device is unprotected.
Red blinking	Charge or time limit reached
1x green inverse blinking*	Connection to the LMC active, pairing OK, device not claimed
2x green inverse blinking*	Pairing error, resp. LMC activation code not available
3x green inverse blinking*	LMC not accessible, resp. communication error

② Online

Off	WAN connection inactive
Green, blinking	WAN connection is established (e.g. PPP negotiation)
Green, permanently	WAN connection active
Red, permanently	WAN connection error

③ DSL

Off	Interface deactivated
Green, permanently	DSL connection active
Green, flickering	DSL data transfer
Red, flickering	DSL transfer error
Red / orange, blinking	DSL hardware error
Orange, blinking	DSL training
Orange, permanently	DSL sync
Green, blinking	DSL connecting

④ Analog 1, 2, 3, 4

Off	Interface deactivated
Green, permanently	Interface activated
Orange, blinking	Incoming call
Green, blinking	Connection active

⑤ ISDN 1, 2

Off	Interface deactivated
Green, permanently	D-channel active
Green, flickering	ISDN data transfer
Red, flickering	ISDN transfer error
Red / orange, blinking	ISDN hardware error

⑥ ETH 1, 2, 3, 4

Off	No networking device attached
Green, permanently	Connection to network device operational, no data traffic
Green, flickering	Data transmission

⑦ WLAN

Off	No Wi-Fi network defined or Wi-Fi module deactivated. The Wi-Fi module is not transmitting beacons.
Green, permanently	At least one Wi-Fi network is defined and Wi-Fi module activated. The Wi-Fi module is transmitting beacons.
Green, blinking	DFS scanning or other scan procedure
Red, blinking	Hardware error in Wi-Fi module

⑧ VoIP

Off	No SIP accounts defined or VCM is off
Green, permanently	All defined and active SIP accounts (outgoing) were successfully registered
Red, permanently	Not all defined and active SIP accounts were registered (possibly still in process)
Red or green, inverse flashing	Number of currently used lines (connecting or connected)

⑨ VPN

Off	VPN connection inactive
Green, permanently	VPN connection active
Green, flashing	VPN connecting

⑩ Reset

Reset button	Operated e.g. with a paper clip short press: Restart the device long press: Reset the device

Hardware

Power supply	12 V DC, external power adapter (230 V); bayonet connector to secure against disconnection
Power consumption	Max. 17 W
Environment	Temperature range 0–40 °C; humidity 0–95 %, non-condensing
Housing	Robust synthetic housing, rear connectors, ready for wall mounting, Kensington lock; measures 210 × 45 × 140 mm (W x H x D)
Number of fans	1 quiet fan

Interfaces

WAN: VDSL2	VDSL2 as per ITU G.993.2; profiles 8a, 8b, 8c, 8d, 12a, 12b, 17a, 35b VDSL Supervectoring as per ITU G.993.2 (Annex Q) VDSL2 vectoring as per ITU G.993.5 (G.Vector) Compatible with VDSL2 and U-R2 from Deutsche Telekom (1TR112) ADSL2+ over ISDN as per ITU G.992.5 Annex B/J with DPBO, ITU G.992.3, and ITU G.992.1 ADSL2+ over POTS as per ITU G.992.5 Annex A/M with DPBO, ITU G.992.3, and ITU.G.992.1 Supports just one virtual connection at a time in ATM (VPI-VCI pair)
Wi-Fi	Frequency band: 2400-2483.5 MHz (ISM) or 5150-5825 MHz (restrictions vary between countries) Radio channels 2.4 GHz: Up to 13 channels, max. 3 non-overlapping (2.4-GHz band) Radio channels 5 GHz: Up to 26 non-overlapping channels (channels available vary according to country regulations; DFS for automatic dynamic channel selection required)
ETH	4 individual ports, 10 / 100 / 1000 Mbps Gigabit Ethernet, by default set to switch mode. Up to 3 ports can be operated as additional WAN ports. Ethernet ports can be electrically disabled in the LCOS configuration.
USB	USB 2.0 hi-speed host port for connecting USB printers (USB print server), serial devices (COM-port server) or USB drives (FAT file system)
ISDN 1 / ISDN 2	ISDN 1: Internal (NT) or external (TE) ISDN bus. This feature is controlled by LCOS. According to the settings, connect an ISDN cable either to the NTBA or the ISDN terminal device. ISDN 2: Internal (NT) ISDN bus. Use an ISDN cable to connect the ISDN device to the ISDN interface.
Analog 1 / Analog 3 Analog 2 / Analog 4	Use the cable of your analog devices to connect them with the analog interfaces. If necessary use the adapters from the LANCOM Analog Adapter Set.
Config (Com) / V.24	Serial configuration interface/COM-port (8-pin mini-DIN): 9,600 - 115,200 baud, suitable for optional connection of analog/GPRS modems. Supports internal COM-port server and provides transparent asynchronous serial-data transfer via TCP.

WAN protocols

VDSL, ADSL, Ethernet	PPPoE, PPPoA, IPoA, Multi-PPPoE, ML-PPP, PPTP (PAC or PNS) and IPoE (with or without DHCP), RIP-1, RIP-2, VLAN
ISDN	DSS1 (Euro-ISDN), PPP, X75, HDLC, ML-PPP, V.110/GSM/HSCSD

Package content

Cable	1 DSL cable for an IP-based line, 4.25 m
Adapters	2 TAE adapters (RJ11 - TAE)
Power adapter	External power supply adapter (230 V), 12 V / 2 A DC/S; barrel / bayonet (EU), LANCOM item no. 111303 (not for WW devices)

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*) The additional power LED statuses are displayed in 5-seconds rotation if the device is configured to be managed by the LANCOM Management Cloud.

This product contains separate open-source software components which are subject to their own licenses, in particular the General Public License (GPL). The license information for the device firmware (LCOS) is available on the device's WEBconfig interface under "Extras > License information". If the respective license demands, the source files for the corresponding software components will be made available on a download server upon request.

Hereby, LANCOM Systems GmbH | Adenauerstrasse 20/B2 | D-52146 Wuerselen, declares that this device is in compliance with Directives 2014/30/EU, 2014/53/EU, 2014/35/EU, 2011/65/EU, and Regulation (EC) No. 1907/2006. The full text of the EU Declaration of Conformity is available at the following Internet address: www.lancom-systems.com/doc

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