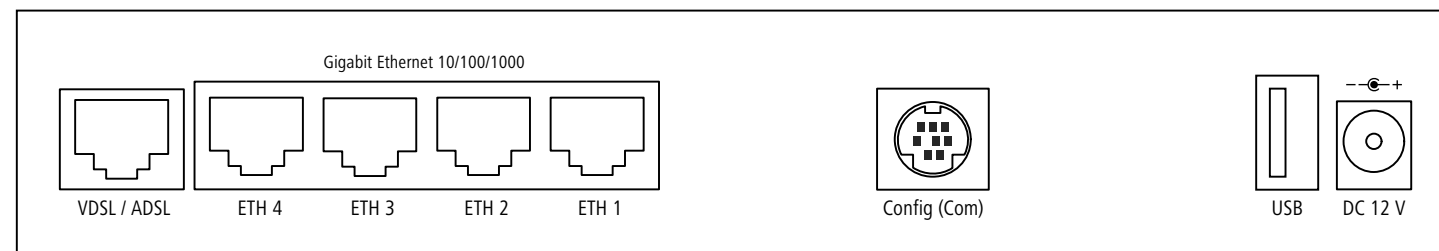
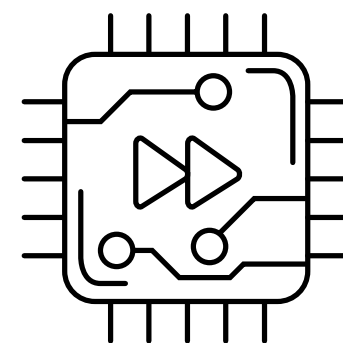
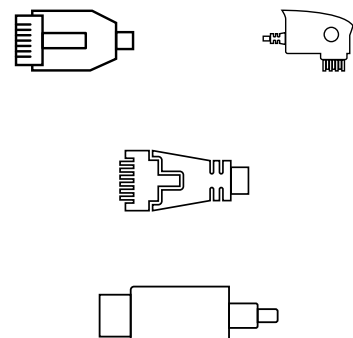


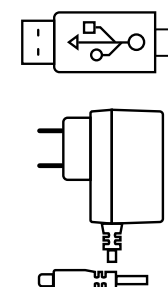
# Hardware Quick Reference LANCOM 1790VAW



- 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 **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).



- ④ **USB interface**  
You can use the USB interface to connect a USB printer or a USB memory stick.
- ⑤ **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!**

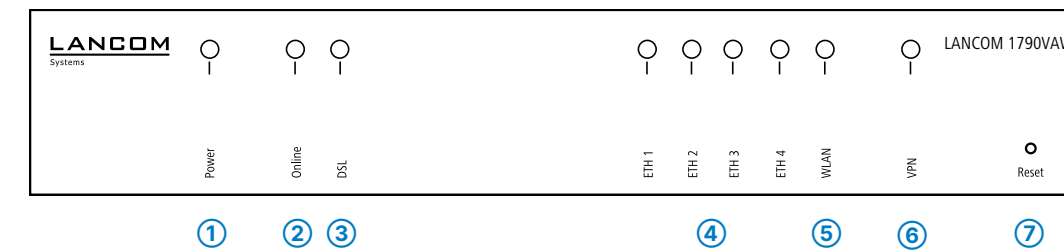
**Operate the device only with a professionally installed power supply at a nearby power socket that is freely accessible at all times.**



**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)

## Mounting & connecting



LED	State	Description
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
② Online	Off	WAN connection inactive
	Green, blinking	WAN connection is established (e.g. PPP negotiation)
	Green, permanently	WAN connection active
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
④ ETH	Off	No networking device attached
	Green, permanently	Connection to network device operational, no data traffic
	Green, flickering	Data transmission
	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
⑤ 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
⑥ VPN	Off	VPN connection inactive
	Green, permanently	VPN connection active
⑦ Reset	Reset button	Operated e.g. with a paper clip short press: Restart the device long press: Reset the device

\*) 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.

Hardware	
Power supply	12 V DC, external power adapter (230 V); bayonet connector to secure against disconnection
Power consumption	Max. 16 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 VDSL2 Supervectoring as per ITU G.993.2 (Annex Q) VDSL2 vectoring as per ITU G.993.5 (G.Vector) Compatible to VDSL2 from Deutsche Telekom Compatible to 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)
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
Package content	
Cables	1 Ethernet cable, 3 m (kiwi colored connectors); 1 DSL cable for an IP-based line, 4.25 m
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)

Hereby, LANCOM Systems GmbH | Adenauerstrasse 20/B2 | D-52146 Wuersele, 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](http://www.lancom-systems.com/doc)