

THE CUSTOMIZED SOLUTION FOR SECURE MACHINE INTEGRATION

WALL IE – Industrial NAT Gateway / Firewall

www.helmholz.com

Helmholz®
COMPATIBLE WITH YOU

WALL IE – Industrial NAT Gateway / Firewall

Secure communication · Easy addressing · Intuitive configuration

High level of security
through access restriction
with packet filters (IPv4 addresses, protocol (TCP/UDP), ports, MAC addresses).

Time savings
through automatic translation
of IP addresses (NAT) without changing the existing network configuration of the machine.



Smooth production process
through network segmentation
for better performance in the network. Through the avoidance of large broadcasts.

View video

YOUR NETWORK COACH – MORE THAN JUST A FIREWALL!

Success in the automation industry starts with improved security and seamless connectivity.

Through **network segmentation** and **translation of IP addresses**, the NAT gateway makes a decisive contribution to **reliable machine integration** and securely protects your automation network against unauthorized access. So that your network works even more efficiently and securely.

Optimize productivity – reduce costs! Thanks to the individual configuration, the ***WALL IE*** can be easily adapted to the requirements of the respective machine network. If identical IP sub-networks are to be realized, ***WALL IE*** functions as a bridge.

Are you struggling with the following network pitfalls?

→ Cybersecurity – fear of attacks?
→ Complicated machine integration through IP address adjustment?
→ Overloaded network vulnerable to malfunction?

Master the challenges of your automation network now with ***WALL IE***!

PRODUCT HIGHLIGHTS:

- NAT (Basic NAT, NAPT and port forwarding)
- Integration of series machines with identical IP addresses into the production network
- SNAT: No adjustment of the network configuration necessary in the machine network
- Access restriction through packet filters: IPv4 addresses Protocol (TCP/UDP/ ICMP), ports, MAC addresses
- Reduction of the network load through the filtering of broadcasts and multi-casts
- Quick and easy configuration via a responsive web interface
- Import and export of the configuration
- DHCP server (LAN) / DHCP client (WAN) / DNS server (LAN)
- 802.1X Authentication
- Space-saving design for the DIN rail

WALL IE Compact – Industrial NAT Gateway / Firewall

The compact and secure solution for easy machine networking



The easiest way to integrate machines with Gigabit into the factory.
The wish to integrate the production machines into the factory network is not new, but often fails due a lack of compatible connectivity with the existing systems or security concepts.

PRODUCT HIGHLIGHTS:

- 2 ports for 100/1000 Mbps
- Integration of series machines with identical IP addresses into the production network
- Quick and easy configuration via a responsive web interface
- Reduced to the relevant functional scope

Curious?

WALL IE PLUS – Industrial NAT Gateway / Firewall

A PLUS for transparent production and intelligent processes in the factory



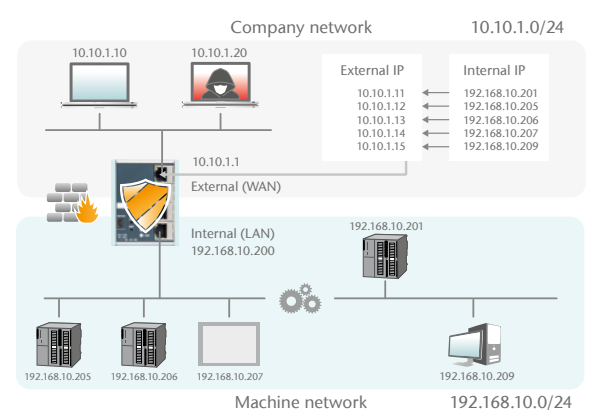
More data throughput for the MES connection and video cameras.
The more efficient processor of the “PLUS” variant enables the connection of cameras, control panels, PCs and other Ethernet components with up to 1000 Mbps. The configurable posts can be freely assigned to the LAN or WAN network.

PRODUCT HIGHLIGHTS:

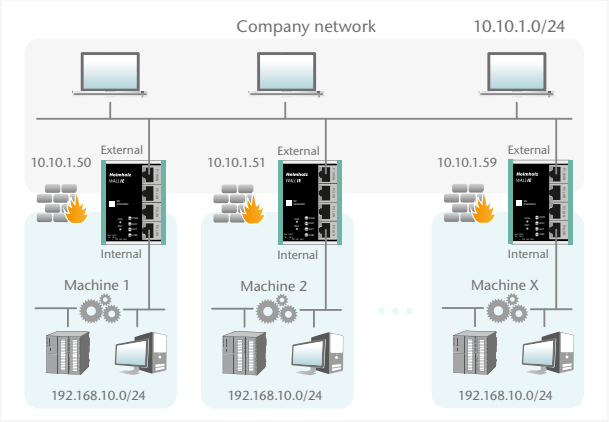
- 8 ports with up to 1000 Mbps
- Integration of series machines with identical IP addresses
- Firewall and user administration integrated
- Ethernet ports for LAN or WAN Freely configurable
- Reduction of the network load through broadcast filtering

Curious?

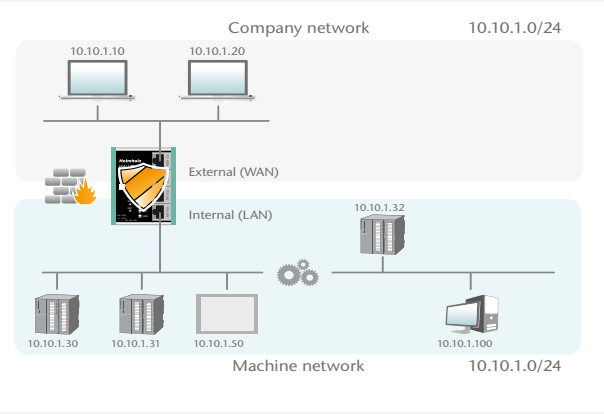
NAT operating mode (Basic NAT)



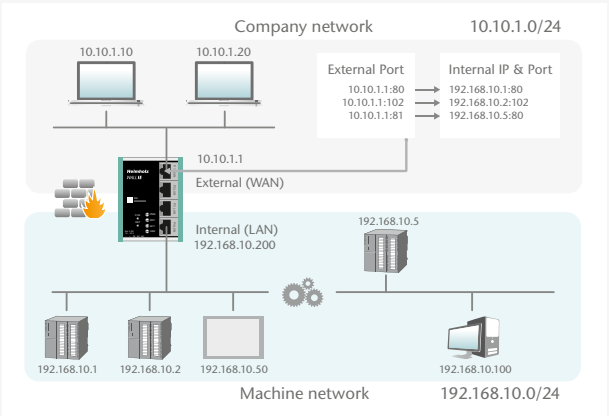
NAT application



Bridge operating mode



NAPT: Network Address and Port Translation



TECHNICAL DATA / ORDERING DATA

	***WALL IE* –** **Industrial NAT Gateway / Firewall**	***WALL IE PLUS* –** **Industrial NAT Gateway / Firewall**	***WALL IE COMPACT* –** **Industrial NAT Gateway / Firewall**
Order number	700-860-WAL01	700-862-WAL01	700-863-WAL01
Dimensions (D x W x H)	32.5 x 58.5 x 76.5 mm	34.5 x 101.5 x 75.5 mm	35 x 48.5 x 76 mm
Emphasis of interfaces	1x WAN 10/100 Mbps 3x LAN 10/100 Mbps, switch	WAN/LAN interface 8x configurable 100/1000 Mbps	1x WAN 100/1000 Mbps 1x LAN 100/1000 Mbps
Operating modes	Bridge, NAT (Basic NAT, NAPT), SNAT	Bridge, NAT (Basic NAT, NAPT), SNAT	Bridge, NAT (Basic NAT, NAPT), SNAT
Packet filter / firewall	IPV4 addresses Protocol (TCP/UDP) Ports: “WAN to LAN” and “LAN to WAN” separated, MAC addresses (black & whitelisting)	IPV4 addresses, protocol (TCP/UDP), ports: “WAN to LAN” and “LAN to WAN” separated, MAC addresses (black & whitelisting)	IPV4 addresses, protocol (TCP/UDP), ports: “WAN to LAN” and “LAN to WAN” separated, MAC addresses (black & whitelisting)
Features	DHCP-Server/Client DNS-Server SNTP-Routing 802.1X Authentication	DHCP-Server/Client DNS-Server SNTP-Routing 802.1X Authentication	DHCP-Server/Client DNS-Server SNTP-Routing 802.1X Authentication
Voltage supply	DC 24 V (18 ... 30 V DC)	DC 24 V (18 ... 30 V DC)	DC 24 V (18 ... 30 V DC)
Permissible ambient temperature	-40 °C ... +75 °C	0 °C ... +60 °C	0 °C ... +60 °C

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We reserve the right to make changes without notice.
Errors and omissions excepted. 10-2026