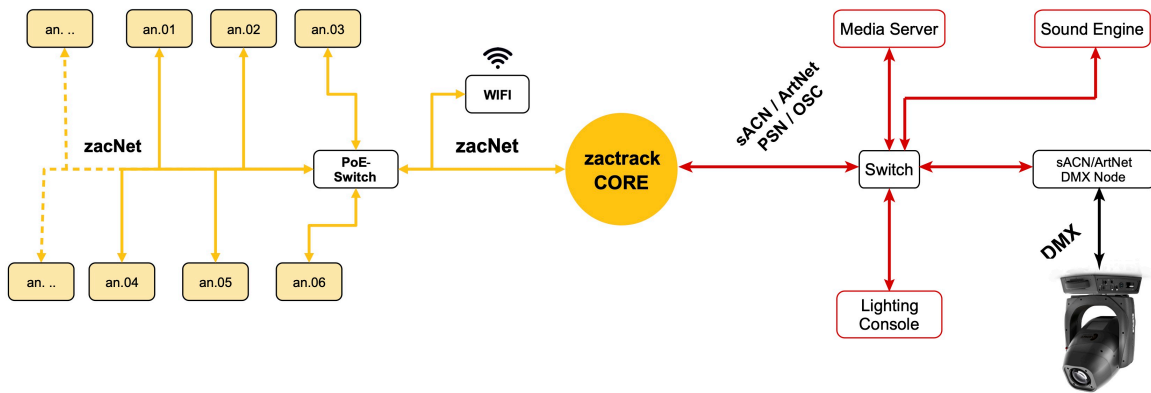
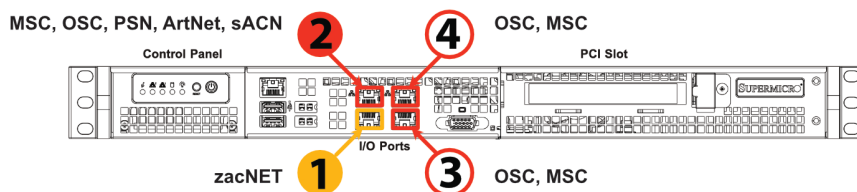


Interfaces and IP settings



zacktrack Pro + Smart System Diagram

zacktrack Pro Connections



zacktrack PRO Network Interfaces

Network Interface 1 - zacNET (eth0) Port 1

- Unique IP address preconfigured by zt HQ
 - IP1: 172.20.xx.xx / 14 (zacNET)
 - IP2: 10.10.xx.xx / 16 (Anchors)
- Additional IP settings can be configured > System Settings > Advanced Settings > Network Configuration
- No DHCP

Network Interface 2 - Lighting / Media (eth1) Port 2

- Default IP range: 192.xx.xx.xx / 8; Adjustable within System Settings > Advanced Settings > Network configuration
- Protocols: sACN, ArtNet, PSN, OSC, MSC
- No DHCP

Optional Network Interface 3 - Media (eth2)

- Protocols: OSC, MSC > Routing will be defined within OSC or MSC fixture types
- No DHCP

Optional Network Interface 4 - Media (eth3)

- Protocols: OSC, MSC >; Routing will be defined within OSC or MSC fixture types
- No DHCP



NOTE

Additional IPs can be set within Advanced Settings / Network configuration

Please be aware of reserved IP ranges which can NOT be used by the user!

Reserved IP ranges

The following IP ranges are reserved for anchor or internal service communication.

Table 1. Reserved IP ranges

	zactrack PRO	zactrack SMART	zactrack mini
Internal services:	172.19.0.1 - 172.23.255.254	172.19.0.1 - 172.23.255.254	172.19.0.1 - 172.23.255.254
Anchor communication:	10.10.0.1 - 10.11.255.254	172.24.0.1 - 172.31.255.254	



NOTE

Any IP address within these subnets can NOT be used as an IP address on any Network Port (NIC) of the zactrack server.

External Ports (Basic)

This is a list of mandatory open ports required to run a zacktrack server. Some ports are only used by a specific product family or on a specific network interface.

Table 2. External Ports of zacktrack

Port	Protocol	System	Interface	Service	Description
22	SSH over TCP/IP	PRO, Smart, mini	ALL		Used for SSH access via remote maintenance or another local network device
80	HTTP	PRO, Smart, mini	ALL	web-client	Allows web access to the zacktrack server landing page and service logs
443	TCP	PRO, Smart, mini	ALL	zacktrack-vpn	Port used during remote maintenance.
1194	UDP	PRO, Smart, mini	ALL	zacktrack-vpn	Port used during remote maintenance.
5000	UDP	Smart	ZACNET	rtls-smart	Used for receiving default anchor communication (ranging etc)
5568	UDP	PRO, Smart, mini	LIGHT	core	Default port for Streaming ACN (can be overridden)
6454	UDP	PRO, Smart, mini	LIGHT	core	Default port for ArtNet (can be overridden)
7911	TCP/IP	PRO, Smart, mini	ALL	core	Thrift API for zacktrack client and backup servers
8080	HTTP	PRO, Smart, mini	ALL	updater	Allows web access to the system maintenance page
8081	HTTP	PRO, Smart, mini	ALL	manual	Allows web access to the manual page
8082	HTTP	PRO, Smart, mini	ALL	web-monitor	Allows web access to the web monitor page
10747	UDP	PRO, Smart, mini	ZACNET	core	Discovery service for backup functionality.
50000	UDP	Smart	ZACNET	rtls-smart	Used for sending default anchor communication (ranging etc)
50001	UDP	Smart	ZACNET	rtls-smart	Used for anchor configuration
56565	UDP	PRO, Smart, mini	LIGHT	core	Default port for PosiStageNet (can be overridden)