SIEMENS

Spectrum Power™ 5 - Hardware and Software Prerequisites

Hardware

General	
	Spectrum Power™ 5 is designed to get installed on on-premises, state-of-the-art, Intel-CPU based PC-hardware. The minimum requirements for compatible hardware are as follows.

Server (Example Configuration)	
CPU	At least 2x Intel Xeon processors, 64-bit, multi-core, high clock speeds, current generation recommended
RAM	At least 32 GB RAM, significantly more may be required depending on system size and number of applications
Hard Drives	Redundant disks (RAID 1/10 recommended), SSDs recommended, Capacity depends on Spectrum Power 5 server type, e.g. for historical information server: at least 500 GB, often several TB
Network	2x redundant Gigabit Ethernet interfaces per server, Optional: 10 Gbit/s for large systems or virtualization
Redundancy	Redundant power supplies and fans, UPS connection for uninterrupted operation
Operating System	Compatible with MS Windows Server (64-bit), depending on Spectrum Power™ 5 release version, see below.

Workstations (UI Clients)	
CPU	Intel i5/i7 or equivalent, high clock speeds recommended
RAM	At least 16 GB RAM

Hard Drives	Redundant disks (RAID 1/10 recommended), SSDs recommended
Graphics	Multi-monitor support, resolution at least 1920x1200 per monitor
Network	Gigabit Ethernet, Optional: 2x redundant Gigabit Ethernet interfaces per workstation
Operating System	Compatible with MS Windows (64-bit), depending on Spectrum Power™ 5 release version. See below.

Virtualization (Optional)

Virtualization SW	VMware vSphere, Microsoft Hyper-V

Network and Security Infrastructure

	Segmented network for control, office, and external connections recommended Firewall and intrusion detection/prevention systems recommended

Software

General

	Spectrum Power™ 5 is designed to run on Microsoft Windows operating systems (OS). The supported operating system versions depend on the Spectrum Power™ 5 release version. The requirements for compatible software are as follows.

Spectrum Power™ 5 release v5.90

OS on Servers	Windows Server 2022 IoT Standard LTSC
OS on UI clients	Windows 10 IoT Enterprise 2021 64-bit LTSC High End (preferred) Windows Server 2022 IoT Standard LTSC (optional)

Spectrum Power™ 5 release v5.80	
OS on Servers	Windows Server 2019 IoT Standard LTSC
OS on UI clients	Windows 10 IoT Enterprise 2021 64-bit LTSC High End (preferred) Windows Server 2019 IoT Standard LTSC (optional)

Additional Notes

- Spectrum Power™ 5 is scalable. For high availability, hot-standby servers and backup strategies are recommended.
- The software architecture is independent of the PC hardware manufacturer as long as the minimum requirements are met.
- The exact hardware and software configuration depends on the number of monitored field devices, data points, and the desired level of redundancy.