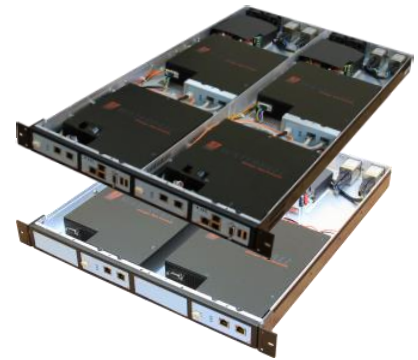


WF-500 Hardware Data Sheet

Stronger-Than-Firewall Perimeter Protections for Control System Networks



- Safe IT/OT Integration through industrial server replication
- Flexible, scalable, and secure hardware configurations
- Unidirectional Security Gateways
- FLIP: reversible unidirectional server replication
- Secure Bypass: temporary, emergency network interconnectivity

Modular Hardware Solutions

Waterfall Security Solutions produces a wide spectrum of solutions based on and complementing Waterfall's world-leading Unidirectional Security Gateways. Waterfall Security Solutions' WF-500 series Modular Architecture provides unparalleled flexibility and scalability for Unidirectional Security Gateway deployments. The WF-500 hardware architecture consists of 1u rack-mount cabinets and a variety of hardware modules which fit into the cabinets.

WF-500 Cabinets

| | WF-500-SCAB | WF-500-CCAB |
|-----------------------|--------------------|--------------------|
| Specifications | | |
| Name | Standard Cabinet | Compact Cabinet |
| Module Capacity | 2 | 4 |
| Power Supplies | 2 per side (4) | 2 per side (4) |
| Dimensions | 48.3 x 4.4 x 52 cm | 48.3 x 4.4 x 76 cm |
| Empty Weight | 2.5 kg | 4 kg |



All inter-module data connections are routed through the front panel of the cabinet where such connections are clearly visible to maintenance personnel and security auditors.

WF-500 Modules

| | WF-500-TX | WF-500-RX | WF-500-HOST | WF-500-FLIP | WF-500-SBP |
|---------------------------|-----------------|-----------------|-----------------|--------------------------|----------------------|
| Specifications | | | | | |
| Name | Transmit Module | Receive Module | Host Module | FLIP Module ¹ | Secure Bypass Module |
| CPU Cores | n/a | n/a | 2 | n/a | n/a |
| Memory | n/a | n/a | 8 GB | n/a | n/a |
| Flash Memory | n/a | n/a | 60* GB | n/a | n/a |
| USB Interfaces | n/a | n/a | 2 x USB 2.0 | n/a | n/a |
| Video Interface | n/a | n/a | VGA | n/a | n/a |
| Copper Network Interfaces | 2 | 2 | 3 | 5 | 3 |
| Fiber Network Interfaces | 1 | 1 | n/a | n/a | n/a |
| Network Interfaces | 10/100/1000 | 10/100/1000 | 10/100/1000 | 10/100/1000 | 10/100/1000 |
| Dimensions (cm) | 18.6 x 4 x 26.5 | 18.6 x 4 x 26.5 | 18.6 x 4 x 26.5 | 41.8 x 4 x 26.5 | 18.6 x 4 x 26.5 |
| Weight | 0.8 kg | 0.8 kg | 1.2 kg | 1.8 kg | 0.8 kg |

*Can be upgraded to 1 terabyte.



The Waterfall Modular Architecture offers unprecedented flexibility: the solution can be scaled via high-end, third-party agent servers, can consume minimal rack space in both conventional and high-availability deployments, can have TX and RX Modules in different rooms, or different buildings, and can support corporate IT "standard server/vendor" policies.

WF-500 Packages

WF-500 software, cabinets and modules come in a variety of packaged combinations. Each package of hardware modules includes Standard or Compact cabinets large enough to hold all included hardware modules. Packages are named as illustrated below:

WF-500-SW-STD/COMPACT-HA/FLIP

Where:

- **SW** = Name of the software product – eg: PIAF, MBP
- **STD** = Standard: TX Module + RX Module in Standard rack-mount cabinet
- **COMPACT** = TX Module + RX Module + two Host Modules in Compact rack-mount cabinet
- **HA** = High Availability is licensed - at least two identical HA packages must be purchased.
- **FLIP** = FLIP Module substituted for TX and RX Modules.

Examples:

WF-500-FILE-LFL-COMPACT-HA = Local file folder replication software + full-size cabinet + TX/RX & 2 Host Modules

WF-500-PI-STD = OSISOFT PI server replication + half-size cabinet + TX/RX Modules

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