



Solace PubSub+ 3530 Appliance

The Solace PubSub+ 3530 appliance offers real-time messaging in a compact, easy to use form factor that cost-effectively meets the needs of mid-sized businesses, multiple departments and remote datacenters.

Appliance Form Factor for Simplicity

As a self-contained device, the Solace 3530 is easy to deploy, manage and upgrade over time. It offers a powerful monitoring and management framework that's easy to integrate with your existing management tools and security systems, making it easier than ever to protect your infrastructure and troubleshoot faults.

Hardware Datapath for Performance

Many appliances are just software that's been pre-installed on servers, but Solace has embedded data movement logic and protocols into high-speed FPGAs and Network Processors. Since all processing runs in these purpose-built chips there's no operating system in the datapath, which eliminates the latency and unpredictability associated with OS interrupts and context switching.

That translates into higher throughput and lower, more predictable latency than other solutions.

Open Standard APIs and Unified Administration

All of Solace's messaging capabilities are accessible through open standard APIs that are available for common operating systems and programming languages. PubSub+ software and appliances are managed together, providing system-level visibility across hybrid clouds.

Capacity and Performance Specifications

Expansion Cards

- Slots: 6
- Field-Serviceable: Yes
- Control Plane: Standard

Connectivity

- I/O Card: 4x1GE
- Max Enterprise/JMS Connections: 6,000
- Max IoT/Web/REST Connections: 6,000

Non-Persistent Messaging

- Point to Point Max Rate: 4.7M msgs/sec
Max Throughput: 4 Gbps
- Fanout Max Rate: 4.7M msgs/sec
Max Throughput: 4 Gbps
- Average Latency: 28µs at 1M msgs/sec

Persistent Messaging

- Point to Point Max Rate: 75k msgs/sec
Max Throughput: 1 Gbps
- Fanout Max Rate: 450k msgs/sec
Max Throughput: 4 Gbps
- Max Queue: 240M messages, 800 GB
- Average Latency: 75µs at 30,000 msgs/sec

Physical

- Weight: 54lbs. (24.5 kg)
- Height: 3.5" (89mm)
- Width: 17.1" (435mm)
- Depth: 31.9" (810mm)

Power

- Power Supply: 80+, 2x1000W
- Input: 100-240VAC, 3.5-1.5A, 47-63Hz
- Consumption: 225W @120V (240VA)

Environmental

- Operating Temperature: 10°C to 40°C
- Operating Humidity: 5% to 85% (non-condensing)
- Storage Temperature: -40°C to 65°C
- Storage Humidity: 5% to 95% (non-condensing)
- Air Flow Direction: Front to Back



Key Capabilities

Reliable Messaging

Solace can deliver millions of messages per second to hundreds of thousands of subscribers.

Guaranteed Messaging

Solace message routers can guarantee that messages are delivered no matter what, in the same order they were sent.

Web Messaging

Solace can stream millions of real-time messages over the internet and wireless networks with much higher and more consistent performance than other solutions.

WAN Optimization

Solace accelerates WAN distribution through real-time compression and intelligent routing.

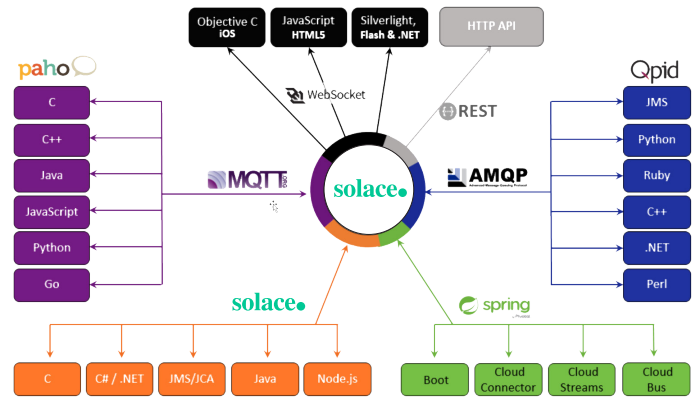
Internet of Things

Solace appliances can provide high throughput, end-to-end messaging across the core, edge and device layers of typical IoT architectures.

APIs & Protocols

Solace messaging APIs offer robust and uniform client access to all of Solace's capabilities and qualities of service, and are available for C, .NET, iOS, Java, JavaScript, JMS and Node.js.

Solace also supports open APIs, standard protocols and open source technologies such as AMQP/Qpid, JMS/JCA, MQTT/Paho, REST and WebSocket.



Features and Functionality

Safety Approvals

- IEC 60950-1:2005 + Am 1:2009 +Am 2:2013
- UL 60950-1 2nd Ed. (Including AM 1&2)
- CSA 22.2 No. 60950-1-07 (Including AM 1&2)

EMC Approvals

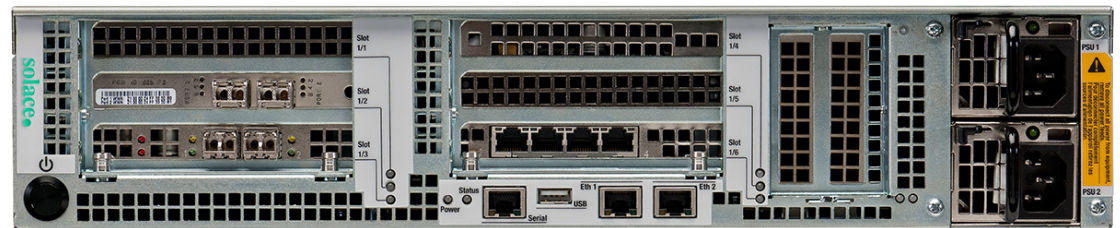
- FCC Part 15 Class A
- EN 55032:2012
- EN55024:2012
- EN 61000-3-2:2014
- EN 61000-3-3:2013

Interfaces

- Ethernet 1000BaseT
- Fibre Channel 4/2/1Gbps auto-negotiation
- RS232

Network Protocols

- TCP/IP
- Fibre Channel
- Ethernet IEEE Std 803.2ab
- Ethernet IEEE Std 802.3ae
- Ethernet Link Aggregation IEEE Std 802.3ad



Message Exchange Patterns and QoS

- Publish/Subscribe and Request/Reply
- Fanin, fanout, streaming
- Reliable and guaranteed (persistent) delivery

High Availability

- 99.999% availability for an HA pair
- Active-Active or Active-Stand-by redundancy
- Chassis based system with discrete data and control planes
- Integrated replication for disaster recovery

Security

- Per client authentication via Radius, LDAP, TLS Certificate, Kerberos, or local
- Publisher, subscriber and IP layer access control lists
- TLS for client and inter-broker connections

Distribution

- Integrated routing protocols for WAN between data centers, with support for reliable and guaranteed messaging
- Per topic, per subscriber rate control (eliding) for consumers who can't consume messages at real-time rate
- Streaming GZIP compression with clients and/or between appliances

Virtualization

- Ability to virtualize application groups on the same physical Solace message router with complete message isolation.

Monitoring & Management

- Manage via CLI, SolAdmin GUI, SEMP RESTful API and Web Manager
- Deep per-client and per-message stats from layers 1 to 7
- Syslog, SNMP and SEMP for logging/monitoring
- Hands-off management with wake-on LAN

Other

- Integrated ITRS plug-in for full Solace monitoring
- Last value caching with all request/reply semantics built into the API.
- TS Associates integration for latency monitoring



Solace's smart data movement technologies use open APIs and protocols to rapidly and reliably route information between applications, devices and people across clouds. Elite enterprises and high-growth startups around the world use Solace to modernize legacy applications and successfully pursue analytics, hybrid cloud and IoT strategies. Learn more or contact us at <https://solace.com>.