



Rubisec RS-G620-48T

48 port 32G Fibre Channel SAN Switch

Technical Datasheet & Compliance Statement

1. Product Overview

The **Rubisec RS-G620-48T** is a high-performance enterprise-class Fibre Channel Storage Area Network (SAN) switch designed to provide secure, scalable, and highly available storage connectivity for modern data centers.

The platform delivers non-blocking Fibre Channel switching performance, advanced SAN fabric services, virtualization support, redundant hardware architecture, and comprehensive security capabilities required for mission-critical storage environments.

The RS-G620-48T is suitable for deployment in enterprise storage networks connecting servers, storage arrays, backup systems, virtualization platforms, and disaster recovery infrastructures.

2. Key Features

- 1RU rack-mount form factor
- Up to 48 Fibre Channel ports
- 2 / 4 / 8 / 16 / 32 Gbps Fibre Channel support
- Minimum 24 active ports equipped with 32G SW SFP transceivers
- Non-blocking architecture
- Redundant hot-swappable power supplies
- Hot-swappable cooling modules
- Virtual SAN / Virtual Fabric support
- ISL Trunking technology
- Quality of Service (QoS)
- Fabric routing and traffic optimization
- NPIV and NPV support
- Role-Based Access Control (RBAC)
- RADIUS and TACACS+ authentication
- Secure management interfaces
- Enterprise SAN scalability

3. Hardware Specifications

Feature	Specification
Product Model	Rubisec RS-G620-48T
Switch Type	Enterprise Fibre Channel SAN Switch
Form Factor	1RU Rack Mount
Fibre Channel Ports	48 Ports
Active Ports	Minimum 24 Active Ports
Port Speeds	2 / 4 / 8 / 16 / 32 Gbps Auto-Sensing
Architecture	Non-Blocking Switching Fabric
Optics	32G Fibre Channel SW SFP Transceivers
Management Ports	Ethernet Management Interface
Power Supplies	Dual Redundant Hot-Swappable PSUs
Cooling	Redundant Hot-Swappable Fan Modules
Installation	Standard 19-inch Rack Cabinet

4. High Availability

The Rubisec RS-G620-48T is designed for continuous operation and maximum service availability.

The platform includes:

- Dual redundant power supplies
- Online replacement of power modules
- Hot-swappable fan modules
- Redundant cooling architecture
- Non-disruptive maintenance capability
- Automatic failover mechanisms
- Continuous SAN fabric operation during component replacement

These features ensure uninterrupted storage network services and minimize operational downtime.

5. Fibre Channel Connectivity

The RS-G620-48T provides enterprise-class Fibre Channel connectivity with support for multiple generations of storage and server adapters.

Supported Fibre Channel Speeds

- 2 Gbps
- 4 Gbps
- 8 Gbps
- 16 Gbps
- 32 Gbps

Port Configuration

- Total physical ports: 48
- Minimum active ports: 24
- Expansion capability up to 48 active ports
- 32G SW optical transceiver support

The architecture ensures full line-rate switching performance across all active ports.

6. SAN Fabric Services

The Rubisec RS-G620-48T provides advanced SAN services required for enterprise storage environments.

Virtual SAN / Virtual Fabric Support

The platform supports hardware-based SAN segmentation through Virtual SAN (VSAN) or Virtual Fabric technology.

Capabilities include:

- 32 logical SAN(VSAN) instances
- Secure traffic isolation
- Independent administration domains
- Multi-tenant SAN environments
- Enhanced security and scalability

Fabric Services

Supported services include:

- Name Server
 - Fabric Login Services
 - Registered State Change Notifications (RSCN)
 - Fabric Configuration Services
 - In-Order Frame Delivery
 - Fabric-wide Management Functions
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7. ISL Trunking

The Rubisec RS-G620-48T supports advanced inter-switch connectivity technologies.

ISL Trunking

Inter-Switch Link (ISL) Trunking enables:

- Aggregation of multiple Fibre Channel links
- Increased bandwidth between switches
- Load balancing
- Enhanced availability

F-Port Trunking

The platform supports F-Port Trunking technology, enabling:

- Aggregation of multiple host-facing Fibre Channel links
- Increased bandwidth between servers and SAN fabric
- Load-balanced traffic distribution
- Improved path resiliency and availability
- High-performance host connectivity for mission-critical applications

8. Routing and Traffic Management

Fabric Routing

The platform supports advanced SAN routing capabilities including:

- Fabric Shortest Path First (FSPF)
- Intelligent path selection
- Dynamic route optimization
- Automatic rerouting

Inter-Fabric Routing

The RS-G620-48T supports communication between isolated SAN environments through advanced routing services while maintaining logical separation and security.

Quality of Service (QoS)

QoS mechanisms enable:

- Traffic prioritization
 - Mission-critical application protection
 - Bandwidth allocation
 - Congestion management
 - End-to-end service quality enforcement
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9. Virtualization Support

The Rubisec RS-G620-48T supports modern server virtualization and cloud infrastructures.

Supported Technologies

- N-Port Virtualization (NPV)
- N-Port ID Virtualization (NPIV)
- Virtual Machine Environments
- Multi-host Storage Connectivity
- Storage Consolidation Architectures

These capabilities improve scalability and simplify deployment in virtualized data centers.

10. Security Features

The platform incorporates comprehensive security mechanisms to protect storage traffic and management access.

Access Control

- Role-Based Access Control (RBAC)
- User privilege management
- Administrative domain separation

Authentication Services

- RADIUS
- TACACS+
- LDAP integration

Secure Management

- SSH
- HTTPS
- SNMPv3
- Secure file transfer
- Encrypted management sessions

SAN Security

- Fabric isolation
 - Port-level security
 - Zoning enforcement
 - Secure authentication mechanisms
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11. Management and Monitoring

The Rubisec RS-G620-48T provides centralized management and operational visibility.

Management Features

- Command Line Interface (CLI)
- Web-based management
- Centralized monitoring
- Performance reporting
- Event logging
- Real-time statistics
- Diagnostic tools
- Configuration backup and restore

Monitoring Functions

- Port utilization monitoring
 - Traffic analysis
 - Error monitoring
 - Fabric health reporting
 - Alarm and notification services
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12. Environmental Specifications

Feature	Specification
Installation	Indoor Data Center
Rack Size	Standard 19-inch Rack
Height	1RU
Power Input	AC Power
Cooling	Forced Air Cooling
Redundancy	Power and Fan Redundancy
Serviceability	Hot-Swappable Components

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