

# SURPASS hiT 7025

## Multi-Service Provisioning Platform

Nokia Siemens  
Networks

### Highlights at a glance

The SURPASS hiT 70xx series is the new Siemens Multi-Service Provisioning Platform (MSPP) enabling true multi-service provisioning and serving the requirements of emerging converged networks.

SURPASS hiT 7025 is a highly versatile piece of equipment in terms of its applications and equipping options. While covering the complete range from an STM-1 to an STM-16 system, compact ADM-4 or ultra-compact multi-ADM-16 will form the prime usage.

SURPASS hiT 7025 supports a large variety of data interfaces including Ethernet and industry-standard PDH/SDH interfaces. In addition, the system supports Ethernet Layer 2 switching functionality, providing reliable and efficient data transport. The card commonality with other SURPASS hiT 70xx family members simplifies holding of spares and operational logistics.

### SURPASS hiT 7025 key features

- Non-blocking 33G@VC-4 and 10G@VC-12 fabric with five on-board STM-16/STM-4/STM-1 interface ports
- Non-blocking 15.2G@VC-4 and 5G@VC-12 fabric on-board STM-16/STM-4 interface port
- Non-blocking 7.2G@VC-4 and 2.5G@VC-12 fabric on-board STM-4/STM-1 interface port
- Multi-service platform: 2M, 34/45M, 155M, STM-1/4/16, 10/100BT, GbE
- GFP (Generic Framing Procedure), LCAS (Link Capacity Adjustment Scheme) and VCAT (Virtual Concatenation)
- Layer 2 switching and aggregation
- Extensive protection mechanisms (SNCP, MSP, 2F-MS-SPRing, hardware)
- Data traffic protection scheme via RSTP
- Suitable for 19 inch and ETSI racks
- Extended Temperature range of +55°C



#### Your Customers

get customized bandwidth on demand, tailored service level agreements and benefit from fast and flexible provisioning or upgrading of bandwidth and services.

#### Your Business

can now cover new market segments (data as well as voice), profit from new applications and services like bandwidth on demand, realize flexible enterprise virtual private networks, and benefit from customized service level agreements.

#### Your Network

gains in functionality due to convergence of voice and data. It makes optimal use of available bandwidth capacity and is much simpler to operate. As less equipment is needed, you save investment and operational cost.

### Major benefits for carriers

Increased revenue from new services coupled with significant reductions in operating and capital expenditures open up new sources of profitability to the carrier.

Furthermore, seamless integration into the existing network infrastructure saves considerably on investments, and since SURPASS hiT 7025 is fully integrated into Nokia Siemens Networks' best-in-class network management system (TNMS), it brings significant operational cost reductions. TNMS provides end-to-end administration and performance monitoring for the complete next generation SDH network, improving operating efficiency, reducing costs for service delivery and simplifying network operations.

SURPASS hiT 7025 supports TDM as well as Ethernet services, thus providing carriers with an extremely cost-efficient platform for multi-service support. The integrated Layer 2 switch module provides switching and overbooking capability, offering also the possibility of multipoint-to-multipoint connections.

The small form factor pluggable (SFP) optical modules are customized port features, which allow "under-equipping" of interface cards

to support different applications cost-effectively. Long-haul and short-haul interfaces can be mixed on one card.

### Competitive new capabilities

SURPASS hiT 7025 improves the carrier's market competitiveness through higher service flexibility, faster service provisioning, reduction in operating and capital expenditures and protection of investments.

It gives carriers a unique competitive advantage by transporting flexible Ethernet services from business customers using reliable SDH technology. Furthermore, the Ethernet services can be offered with high quality (carrier grade) as well as best-effort service.

SURPASS hiT 7025 fits into existing SDH networks, thereby protecting the operator's network and resources investment, while full inter-working with other ITU-T standards-based SDH products is warranted.

### Powerful technological advantages

SURPASS hiT 7025 can be deployed as a terminal multiplexer (TMX), an add-drop multiplexer (ADMX), a local cross-connect (LXC) or a multi-ring terminal (MRT) in point-to-point, chain and ring topologies and ring interconnections.

SURPASS hiT 7025 is the cost effective compact solution, offering

competitive connectivity from STM-1 to multiple STM-16, for TDM and data.

It offers:

- Flexible and highly available equipment design
- Point-to-multipoint connections and aggregation via an integrated Layer 2 switch to build VPNs
- Bandwidth on demand via GFP mapping and LCAS for Ethernet links
- Interconnection of corporate networks
- Carrier services that can be offered via Ethernet, leased lines, SDH, VLAN, VPN application

### Designed with the future in mind

SURPASS hiT 7025 has been designed to address the emerging convergence networks. Combining the best of both worlds, SURPASS hiT 7025 is the optimum solution for all types of mixed TDM and data traffic.

### Key Abbreviations

- MSP** Multiplex Section Protection  
**MS-SPRing** Multi-Section Protection Ring  
**RSTP** Rapid Spanning Tree Protocol  
**SLA** Service Level Agreement  
**SNCP** Sub-Network Connection Protection



**SURPASS hiT 7025 helps carriers significantly cut costs, increase revenue through more efficient and new service delivery, and quickly adapt to customers' demands. This makes SURPASS hiT 7025 a key investment for profitable and future-proof metropolitan networks.**

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