

# SURPASS hiT 7030

## Multi-Service Provisioning Platform



### Highlights at a glance

The SURPASS hiT 70xx series is the Nokia Siemens Networks next generation SDH platform, enabling true multi-service provisioning and serving the requirements of emerging converged networks.

The SURPASS hiT 7030 is a highly compact and integrated STM-1/STM-4 system positioned for Metro Access applications. With its modular and yet compact design, the SURPASS hiT 7030 is the product of choice for mixed data and voice applications at end customer premises or at the edge of the carrier network. The card commonality with the SURPASS hiT 70xx family simplifies operational logistics and the holding of spares.

#### Your customers

get customized bandwidth and tailored service level agreements, and benefit from a fast and flexible bandwidth upgrade.

#### Your business

can address new market opportunities, offer highest quality Virtual Private Networks to enterprise customers, and benefit from an ever-increasing need for data communication services.

#### Your network

is enhanced, supporting data-based services. It makes optimal use of available capacity and becomes simpler to operate. The SURPASS hiT 7030 brings the client data to your network, improving your market competitiveness through higher service flexibility and faster service provisioning while reducing your operating expenditure.

#### SURPASS hiT 7030 key features

- STM-1 or STM-4 uplink
- Modular 4-slot design
- Multi-service platform: 2M, 34/45M, FE, STM-1, STM-4
- GFP, LCAS and VCAT
- Extensive protection mechanisms (SNCP, MSP, hardware)
- AC and DC power option
- Extended temperature range for up to 70o Celcius
- Suitable for 19-inch and ETSI racks

#### Full integration into Nokia Siemens Networks TNMS

- The SURPASS hiT 7030 is fully integrated into the Nokia Siemens Networks' network management system (TNMS) that provides end-to-end administration and performance monitoring for the complete next generation SDH network.

TNMS improves operating efficiency, reduces costs for service delivery and simplifies network operations.

#### Seamless integration into existing network infrastructure

- The SURPASS hiT 7030 fits into existing SDH networks and protects the operator's network and resources investment.
- Full interworking with other ITU-T standards-based SDH products is warranted.

#### Technological advantages

- SURPASS hiT 7030 offers
- AC and DC power option as well as ETSI and 19-inch rack mounting options, allowing operation in telecommunications, data and office environments
  - Flexible and scalable point-to-point links through use of GFP and LCAS
  - Point-to-multipoint and multipoint-to-multipoint connections and aggregation via an integrated Layer 2 switch to build VLANs
  - Card commonality with the SURPASS hiT 7060 and 7060 HC, reducing and simplifying operational logistics and the holding of spares
  - Modular and compact design, allowing adaptation to traffic demand according to traffic growth and traffic pattern



**Major benefits for carriers**

- Increased revenues from new services
- Significant reductions in OPEX and CAPEX
- Seamless integration into existing network infrastructure
- Fully integrated into Nokia Siemens Networks' best-in-class network management system, (TNMS)

**Increased revenues from new services**

- Ethernet-based services can be supported in addition to traditional TDM leased line services.
- A large range of bit rates of variable quality can be offered over a universal Ethernet interface to exactly match customer bandwidth requirements

**Significant reductions in investment and operational costs**

Since the SURPASS hiT 7030 supports both TDM and Ethernet services, it provides carriers with an extremely cost-efficient platform for multi-service access.

The installation effort – and visit to the customer premises – takes place only once, and all service-related changes can be carried out remotely.

The integrated Layer 2 switch module provides switching and overbooking capability, leading to better utilization of the available network bandwidth.

The small form factor pluggable (SFP) optical modules are customized port features which allow the “under-equipping” of interface cards to support different applications cost-effectively. Long-haul and short-haul interfaces can be mixed on one card.

Equipment modularity and flexibility is based on a common pool of interface cards with the SURPASS hiT 70xx family. This reduces the number of spare parts operators need to stock.

**Key abbreviations**

GFP	Generic Framing Procedure
LCAS	Link Capacity Adjustment Scheme
MSP	Multiplex Section Protection
SNCP	Sub-Network Connection Protection
VCAT	Virtual Concatenation

The SURPASS hiT 7030 is the ideal solution for network operators who are looking for an ultra-compact network element to significantly cut costs and increase revenue through more efficient TDM and data service provisioning.

