

# SURPASS hiT 7065

## The compact platform for Core and Metro Aggregation



The SURPASS hiT 70xx series is an IP Optimized Transport Solution (IP-OTS) enabling true multi-service provisioning and serving the requirements of emerging converged networks.

SURPASS hiT 7065 is a new transmission platform that shares a common hardware pool with SURPASS hiT 7080. With its compact architecture it is suitable for Metro and Core aggregation networks and provides SDH, Ethernet switching, ASON/GMPLS, OTN, and WDM functionality. SURPASS hiT 7065 is an ideal platform for carriers to extend their SDH network, while simultaneously supporting enhanced Ethernet functions. This protects previous equipment investments while providing the opportunity to support new value added services and applications.

### **Your customers**

benefit from fast and flexible provisioning, as well as several customized services, like bandwidth on demand and VPNs. Multipoint-to-multipoint connections between different sites are possible with a QoS guarantee.

### **Your business**

can cover new voice and data markets with fast service deployment allowing you to quickly profit from new applications. New services in mobile business with LTE networks can also be built up using SURPASS hiT 7065.

### **Your investments**

are protected as you can easily support existing circuit-based services while introducing new packet-based services.



SURPASS hiT 7065 is a powerful transmission platform, suitable for Metro and Core aggregation scenarios. It supports up to 10 Gbps SDH and Data interfaces.

SURPASS hiT 7065 is suitable for Metro Ethernet scenarios, like mobile backhauling, business services and residential connectivity (Triple Play). Support p2p, p2mp, and mp2mp applications.

## Key benefits

- **Simple, non-disruptive deployment:** seamless integration into existing network infrastructure
- **Fast and flexible service introduction:** transformation of SDH network into a packet network where and when it is needed;
- **Advanced performance** for traffic aggregation and packet processing; wide support for Layer 2 features
- **Interworking:** Full inter-working with other ITU-T standards-based SDH products and with standards-based Carrier Ethernet equipment
- **Synergy and integration:** card commonality with other NEs from SURPASS hiT 70xx series, reducing spare parts pool; when SURPASS hiT 7065 is used as an extension shelf for SURPASS hiT 7080 allows a single NE management for high traffic nodes; full integration to Nokia Siemens Networks Management System

## Technical Specifications

### TDM services

- Non-blocking 300G @ VC-4 and 20G @ VC-12 embedded in a single card
- Multi-service platform: 2M, 34/45M, 155M, STM-1/4/16, STM-64 as well as DWDM wavelengths for STM-16 and STM-64
- System hardware redundancy for controller, cross connect, power, and timing.
- Extensive protection mechanisms (SNCP, MSP, 2/4F-MS-SPRing, DNI)
- Traffic provisioning by GMPLS

## Data Services

- FE, 1 GbE, 10 GbE and FC/1G interfaces
- GFP mapping and virtual concatenation by VC-12/3/4
- Hitless bandwidth adjustment via LCAS

### Ethernet Switch functions

- 128k MAC address memory per Layer 2 card
- Jumbo Frames
- IEEE 802.1d
- Port/VLAN cross connection for p2p service
- 802.3x Flow Control
- 802.1q VLAN , VLAN stacking
- 802.1w RSTP, 802.1s MSTP Ingress
- Rate Limiting
- MAC based ACL
- Layer 2 multicast support via IGMP snooping
- IEEE 802.1p based CoS, Policing CIR/PIR, WRED
- Strict priority and WRR scheduling scheme
- 8 QoS queues per port
- Bandwidth Scheduling and Policing
- Ethernet OAM compatible with ITU Y.1731 and IEEE 802.1ag
- LAG
- Ethernet Linear protection compatible with ITU G.8031
- MPLS-Label -> VCG mapping
- EPL, EVPL and E-LAN services in accordance with MEF9 and MEF14

## Abbreviations

ACL	Access Control List
GFP	Generic Framing Procedure
GMPLS	Generalized Multi-Protocol Label Switching
IGMP	Internet Group Management Protocol
LAG	Link Aggregation
LCAS	Link Capacity Adjustment Scheme
LTE	Long Term Evolution
MPLS	Multi-Protocol Label Switching
MSP	Multiplex Section Protection
MSPP	Multi-Service Provisioning Platform
MS-SPRing	Multiplex Section-Shared Protection Ring
NG	Next Generation
QoS	Quality of Service
RSTP	Rapid Spanning Tree Protocol
SLA	Service Level Agreement
SNCP	Sub-network Connection Protection
VC	Virtual Container
VPN	Virtual Private Networks

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### Technical data

### SURPASS hiT 7065

Physical Dimensions (H x W x D):	725 x 495 x 278 mm
Weight:	typically 50kg
Operation according to:	ETSI Class 3E
Operating temperature range:	-5 °C to +45 °C
Humidity:	5% to 90 %
Power supply:	-48 V DC
Power consumption:	400 W to 700 W depending on configuration