

hiT 7025 Multi-Service Provisioning Platform

Flexible, Cost-Effective MSPP for Converged Networks

The Coriant™ hiT 7025 is a flexible Multi-Service Provisioning Platform (MSPP) that enables true multi-service provisioning and serves the requirements of converged voice and data networks.

The hiT 7025 is highly versatile in terms of both its applications and possible configurations. While covering the complete range from an STM-1 to an STM-16 system, the compact ADM-4 or ultra-compact multi-ADM-16 will form the prime usage. The hiT 7025 supports any mix of PDH, SDH and Ethernet interfaces which enables the platform to support various scenarios within transport networks. Key applications include the optimization of SDH/PDH networks and efficient migration towards packet-based transport.

The hiT 7025 offers a High Order cross-connection capacity up to 33G and a Low Order cross-connection capacity up to 10G. It supports a variety of data interfaces including Ethernet and industry-standard PDH/SDH. In addition, the system supports Ethernet Layer 2 switching functionality, providing reliable and efficient data transport. The card commonality with other hiT 70xx Series products streamlines spares management and operational logistics.

The hiT 7025 fits seamlessly into existing SDH networks, thereby protecting operators' network investments, and is fully compliant with ITU-T and/or IEEE standards, supporting multi-vendor interworking.

FLEXIBLE NETWORK APPLICATIONS

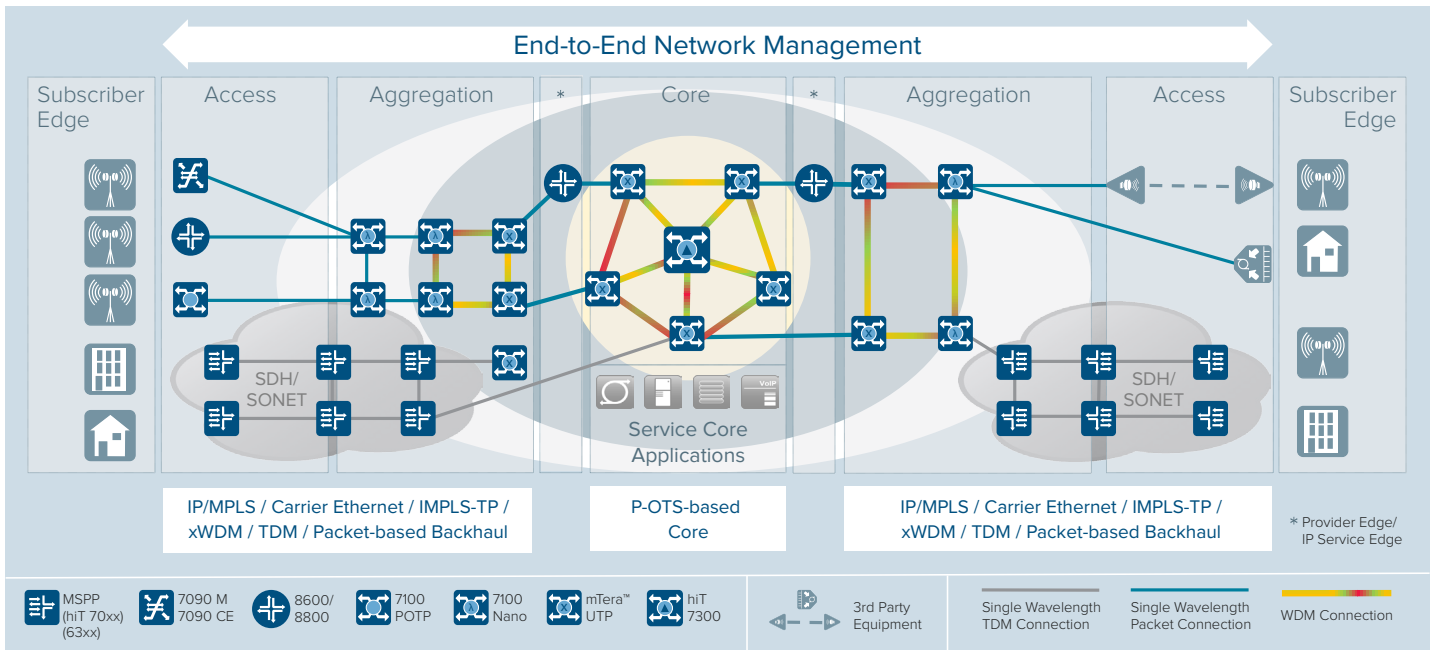
The hiT 7025 can be deployed as a terminal multiplexer (TMX), an add-drop multiplexer (ADMX), a local cross-connect (LXC) or a multi-ring terminal (MRT) in point-to-point, chain and ring topologies and ring interconnections. The hiT 7025 is a compact, cost-effective solution, offering competitive connectivity from STM-1 to multiple STM-16, for TDM and data. The flexible design supports point-to-multipoint connections and aggregation via an integrated Layer 2 switch, enabling the creation of VPNs. Carrier services can be offered via Ethernet, leased lines, SDH, VLAN or VPN applications.

The hiT 7025 gives network operators 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.

BENEFITS OF THE CORIANT™ hiT 7025 MSPP

- **Provides** a highly versatile MSPP which supports a wide range of data interfaces
- **Supports** converged voice and data networks, enabling delivery of new services
- **Delivers** customized bandwidth-on-demand and tailored Service Level Agreements (SLAs)
- **Enables** interconnection of corporate networks
- **Reduces** operational expenditure by streamlining network element numbers and reducing spares requirements
- **Improves** operational efficiency through end-to-end network management and performance monitoring across the network





OFFER NEW SERVICES COST-EFFECTIVELY

The hiT 7025 enables network operators to deliver data and voice services, including bandwidth-on-demand, flexible enterprise virtual private networks and customized service level agreements.

The hiT 7025 can seamlessly integrate into the existing network infrastructure to help protect existing investments. The small form factor pluggable (SFP) optical modules allow “under-equipping” of interface cards to support different applications cost-effectively. Long-haul and short-haul interfaces can be mixed on one card. As less equipment is needed, network operators can realize capital and operating cost savings.

The hiT 7025 is fully managed by the Coriant™ Network Management System, which provides end-to-end administration and performance monitoring for the complete next-generation SDH network, improving operating efficiency and simplifying network operations. Faster service provisioning helps drive service delivery cost reductions. The hiT 7025 enables significant reductions in operating and capital expenditures, providing network operators with an extremely cost-efficient platform for multi-service support.

TECHNICAL SPECIFICATIONS

TDM Services

- Non-blocking 33G@VC-4 and 10G@VC-12 fabric with two STM-16 line interface or one STM-16 line interface and four STM-4 or one STM-16 and four STM-1 line interface
- Non-blocking 15G@VC-4 and 5G@VC-12 fabric with one STM-16 or STM-4 line interface
- Non-blocking 7G@VC-4 and 2.5G@VC-12 fabric with one STM-4 or STM-1 line interface
- Multi-service platform: 2M, 34/45M, 155M, STM-1/4/16, as well as DWDM wavelengths for STM-16
- System hardware redundancy for cross connect, power, and timing
- Extensive protection mechanisms including Sub-Network Connection Protection (SNCP), Multiplex Section Protection (MSP), 2F-Multiplex Section - Shared Protection Ring (MS-SPRing) and DNI

Data Services

- FE, FX, 1GbE and FC(1G/2G) interfaces
- GFP mapping and virtual concatenation by VC-12/3/4
- Hitless bandwidth adjustment via LCAS

Ethernet Switch Functions

- IEEE 802.1d Layer 2 switching
- Port/VLAN cross connection for p2p service
- 32k MAC address memory per Layer 2 card
- Jumbo Frames
- 802.3x Flow Control
- 802.1q VLAN , VLAN stacking
- 802.1w Rapid Spanning Tree Protocol (RSTP), 802.1s MSTP Ingress
- Rate Limiting
- MAC based ACL (Access Control List)
- Layer 2 multicast support via IGMP snooping
- IEEE 802.1p based CoS, Policing CIR/PIR, WRED

- Strict priority and WRR scheduling scheme
- Bandwidth Scheduling and Policing
- IGMP Snooping
- Link Aggregation
- EPL, EVPL and E-LAN services in accordance with MEF9 and MEF14

Technical Data

- Physical Dimensions (H x W x D): 246 x 447 x 279 mm
- Weight: typically 16kg
- Operation according to ETS 300 019-1-3 Class 3.2
- Operating temperature range: -5 °C to +55 °C (-5°C ~ 45°C with horizontal mounted; 5°C ~ 55°C with vertical mounted)
- Humidity: 5% to 90 %
- Power supply: -48 V DC
- Power consumption: 63 W to 210 W depending on configuration

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