Coriant

DATASHEET

hiT 7035
Multi-Service Provisioning Platform

Flexible, Compact MSPP for Efficient Packet Transport Conversion

The Coriant™ hiT 7035 is a highly versatile Multi-Service Provisioning Platform (MSPP) enabling true multi-service provisioning to support the requirements of emerging converged networks.

The hiT 7035 supports a range of applications and equipping options. 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. Due to the flexible and modular design, it is possible to enable the platform for ATM/IMA functionalities and a high quantity of E1 interfaces. This makes the hiT 7035 an ideal solution for an efficient ATM-based mobile backhaul network.

The hiT 7035 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 simplifies holding of spares and operational logistics.

The hiT 7035 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

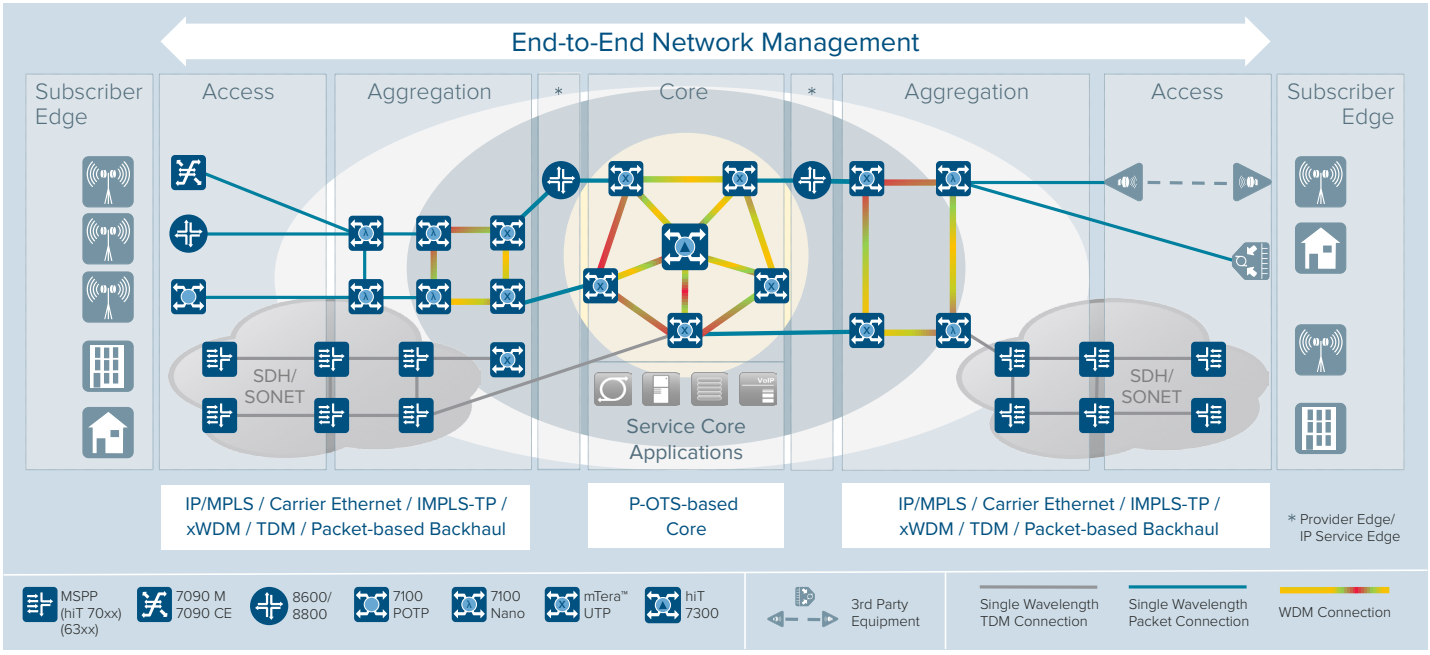
The hiT 7035 can be deployed as a terminal multiplexer (TMX), an add-drop multiplexer (ADMX), a local cross-connect (LXC) or a multi-ring terminal (MRT) in point-to-point, chain and ring topologies and ring interconnections. The hiT 7035 is a cost-effective compact solution, offering competitive connectivity from STM-1 to multiple STM-16, for TDM and data. It provides full support of Ethernet-like FE/GE, point-to-point, point-to-multipoint, and multipoint-to-multipoint. The platform supports any mix of PDH, SDH and Ethernet interfaces which allows network operators to address typical solutions for:

- SDH applications with data capabilities
- Transport networks of mobile network
- Central office STM-16/-4/-1 add drop multiplexer
- High-end enterprise services offer new services cost-effectively

BENEFITS OF THE CORIANT™ hiT 7035 MSPP

- **Provides** a highly versatile MSPP which supports a wide range of data interfaces
- **Offers** a flexible, highly available equipment design
- **Enables** point-to-multipoint connections and aggregation via an integrated Layer 2 switch to build VPNs
- **Offers** bandwidth-on-demand via GFP mapping and LCAS for Ethernet links
- **Supports** interconnection of corporate networks
- **Enables** carrier services that can be offered via Ethernet, leased lines, SDH, VLAN and VPN
- **Improves** efficiency through end-to-end network management and performance monitoring

CARRIER ETHERNET
MEF
Certified Compliant



The hiT 7035 enables network operators to deliver data and voice services, including bandwidth-on-demand, flexible enterprise virtual private networks and customized service level agreements. The integrated Layer 2 switch module provides switching and overbooking capability and the possibility of multipoint-to-multipoint connections.

The hiT 7035 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 7035 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 7035 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

ATM Services

- VPC/VCC cross connect
- IMA aggregation
- CBR, UBR and UBR+ services
- MSP protection

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): 488 x 403 x 242 mm
- Weight: typically 23kg
- Operation according to ETS 300 019-1-3 Class 3.2
- Operating temperature range: -5 °C to +55 °C
- Humidity: 5% to 90 %
- Power supply: -48 V DC
- Power consumption: 53 W to 250 W depending on configuration

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