Coriant.

hiT 7030
Multi-Service Provisioning Platform

Compact MSPP Supports Converged Networks Cost-Effectively

The Coriant™ hiT 7030 is a compact, flexible Multi-Service Provisioning Platform (MSPP) that enables true multi-service provisioning and serves the requirements of converged voice and data networks.

The hiT 7030 is an integrated STM-1/STM-4 system positioned for Metro Access applications. The modular yet compact design of the hiT 7030 makes it highly suitable for mixed data and voice applications at end customer premises or at the edge of the carrier network.

The hiT 7030 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. 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.

FLEXIBLE NETWORK APPLICATIONS

The hiT 7030 is an ideal solution for network operators looking for an ultra-compact network element which can reduce costs and increase revenue through more efficient TDM and data service provisioning.

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. The card commonality with other hiT 70xx Series products streamlines spares management and operational logistics.
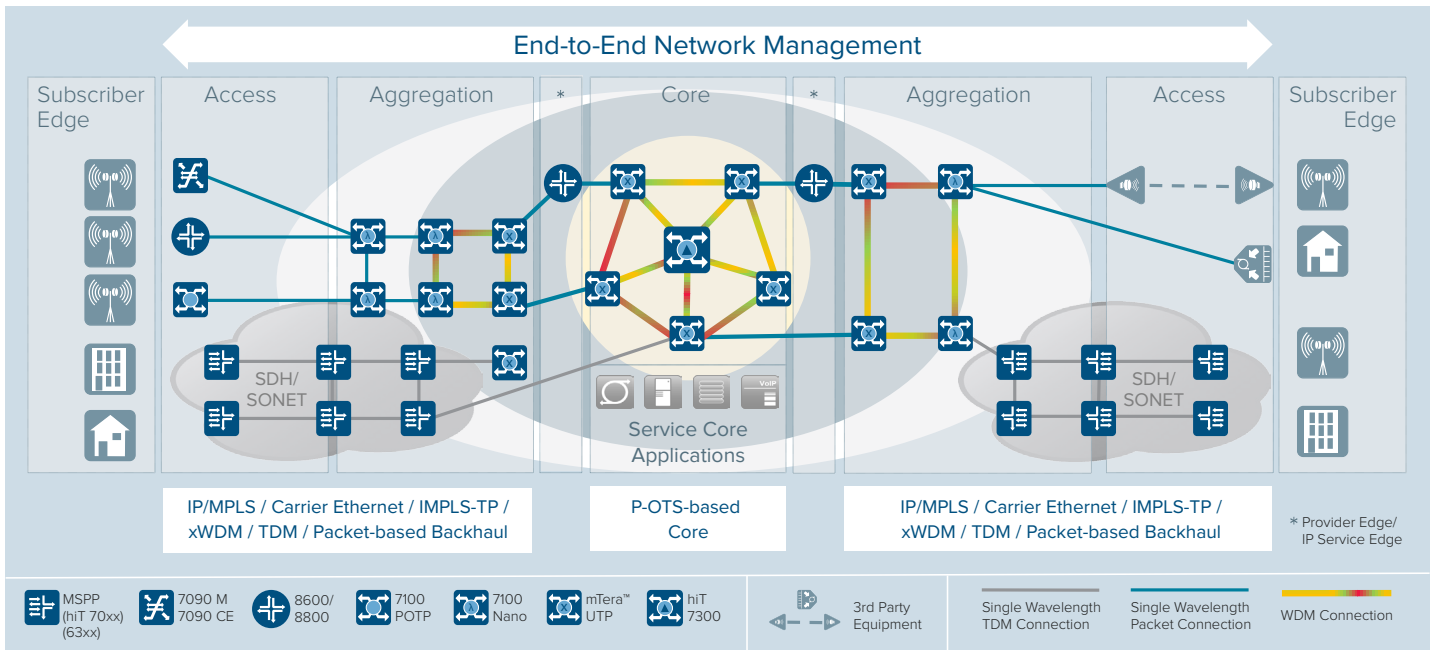
Installation requires only one visit to the customer premises and all service-related changes can be effected remotely. The integrated Layer 2 switch module provides switching and overbooking capability, leading to better utilization of the available network bandwidth.

The flexible design supports point-to-point links through the use of Generic Framing Procedure (GFP) and Link Capacity Adjustment Scheme (LCAS). Point-to-multipoint and multipoint-to-multipoint connections, and aggregation route via an integrated Layer 2 switch to build VLANs, are also supported.

BENEFITS OF THE CORIANT™ hiT 7030 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)

- **Modular**, compact design enables easy future expansion

- **Reduces** operational expenditure by reducing network element numbers and spares requirements

- **Improves** efficiency through end-to-end network management and performance monitoring

End-to-End Network Management

| Subscriber Edge | Access | Aggregation | * | Core | * | Aggregation | Access | Subscriber Edge |

Service Core Applications

| IP/MPLS / Carrier Ethernet / IMPLS-TP / xWDM / TDM / Packet-based Backhaul | P-OTS-based Core | IP/MPLS / Carrier Ethernet / IMPLS-TP / xWDM / TDM / Packet-based Backhaul | * Provider Edge/ IP Service Edge |

MSPP (hiT 70xx) (63xx)	7090 M 7090 CE	8600/ 8800	7100 POTP	7100 Nano	mTera™ UTP	hiT 7300	3rd Party Equipment	Single Wavelength TDM Connection / Single Wavelength Packet Connection / WDM Connection

OFFER NEW SERVICES COST-EFFECTIVELY

The hiT 7030 can seamlessly integrate into the existing network infrastructure to help protect existing investments. The hiT 7030 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 7030 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 7030 enables significant reductions in operating and capital expenditures, providing carriers with an extremely cost-efficient platform for multi-service support.

TECHNICAL SPECIFICATIONS

TDM Services
- Non-blocking switching matrix with 16 x 16 VC-4 equivalent capacity for VC-4, VC-3, and VC-12 granularity
- Multi-service platform: 2M, 34/45M, STM-1/4
- Extensive protection mechanisms (SNCP, MSP, 2F-MS-SPRing)

Data Services
- FE, FX, 1GbE 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
- 4k MAC address memory per Layer 2 card
- Jumbo Frames
- 802.3x Flow Control

- IEEE 802.1q or double-tagged VLAN tagging/de-tagging, filtering, and forwarding
- 802.1w RSTP
- Rate Limiting
- IEEE 802.1p Class of Service (CoS) based on Ethernet per port or per VLAN/port
- MAC based ACL (Access Control List)
- GMP Snooping
- EPL, EVPL and E-LAN services in accordance with MEF9 and MEF14

Technical Data
- Physical Dimensions (H x W x D): 75.5 x 433 x 265 mm
- Weight: typically 8 kg
- Operation according to ETS 300 019-1-3 Class 3.21
- Operating temperature range: -5 °C to +55 °C

- High temperature version: -15 °C to +70 °C
- Humidity: 5% to 90 %
- Power supply: -48 V DC / 100 V to 240 V AC
- Power consumption: 27 W to 83 W depending on configuration

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