Coriant.
DATASHEET

hiT 7065
Multi-Service Provisioning Platform
A Compact Platform for Core and Metro Aggregation

PLATFORM HIGHLIGHTS

The Coriant™ hiT 70xx series is a next generation multi-service transport solution comprised of several chassis, each with flexible configurations capable of supporting a wide variety of applications. The solution is compatible with traditional SDH and MSPP networks and also provides a simplified migration path to new next-generation packet optimized transport solutions, ideal for serving the requirements of emerging converged networks.

The Coriant™ hiT 7065 platform is an important component of the hiT 70xx series solution. By sharing a common hardware pool and software packages with the widely deployed Coriant™ hiT 7080, the hiT 7065 can simplify deployments, reduce operation costs, and leverage a rich and proven set of software features.

The hiT 7065 is a flexible next generation transport platform capable of supporting SDH, Ethernet switching, ATM, OTN, WDM, and ASON/GMPLS functionalities on a single element. With native SDH grooming and integrated packet switching capabilities, the platform provides the ideal solution for service providers to extend their SDH or MSPP network while also providing an elegant path to cost effective and efficient packet-based transport solutions. In addition to a rich set of SDH grooming capabilities, the hiT 7065 supports a robust set of integrated Carrier Ethernet capabilities including point-to-point, point-to-multipoint, and multipoint-to-multipoint configurations. This approach provides investment protection for previously deployed equipment while also providing the opportunity to support new value-added services and applications such as mobile backhaul, business services, and residential connectivity (Triple Play).
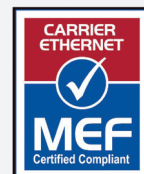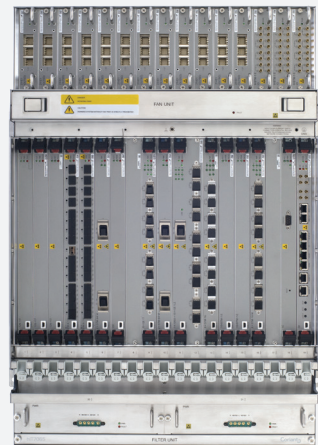
The system boasts a compact and scalable architecture capable of supporting services up to 10G as well as WDM options making it the ideal solution for both Metro and Core aggregation networks.
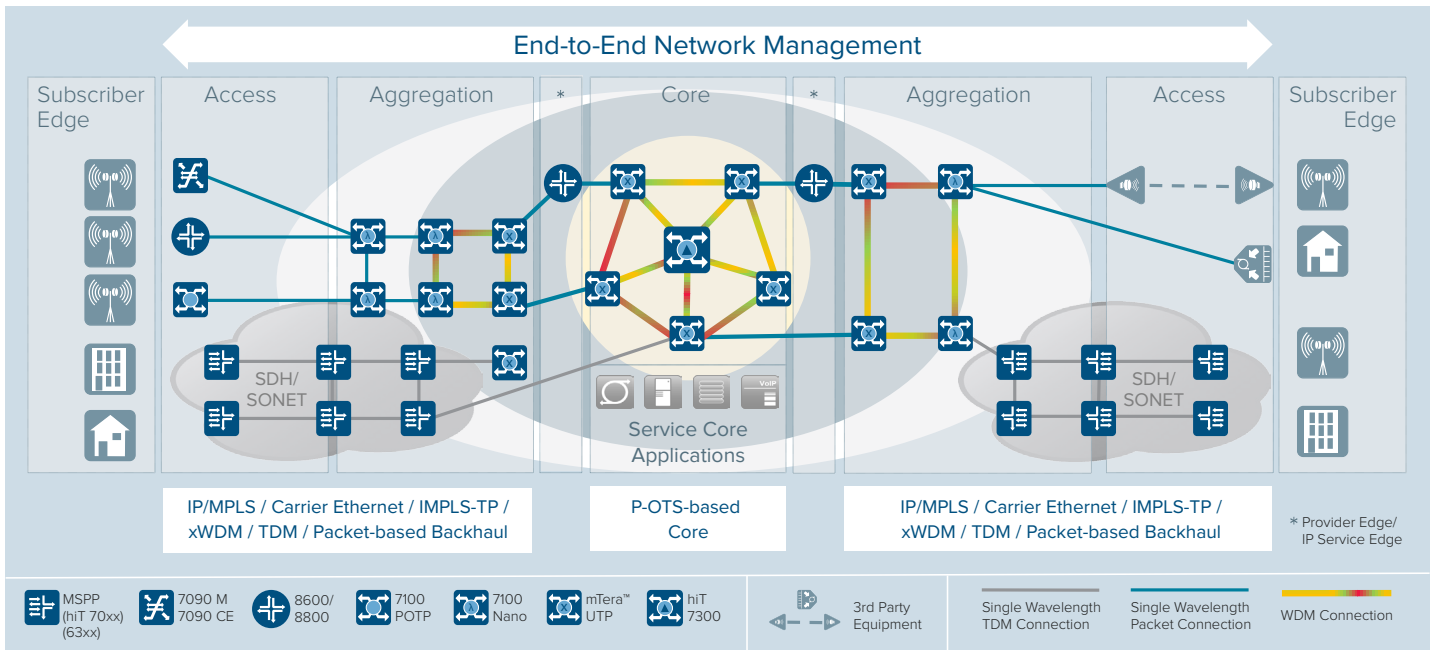
ADD FLEXIBILITY & EFFICIENCY INTO YOUR NETWORK

- **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 the hiT 7065.

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

BENEFITS OF THE CORIANT™ hiT 7065 MSPP

- **Simple, seamless deployment** supports integration into existing network infrastructure with multi-vendor multi-layer interworking

- **Fast and flexible service introduction** for transformation of SDH into packet networks

- **Advanced performance** for multi-layer traffic aggregation and packet processing

- **Improve network efficiency** with comprehensive native SDH and Ethernet grooming capabilities

- **Minimize operational costs** with hardware and software synergies with other NEs from the hiT 70xx series

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

TECHNICAL SPECIFICATIONS

TDM Services
- Non-blocking 300G @ VC-4 and 20G @ VC-3/VC-12 embedded in a single card
- Multi-service platform: 2M, 34/45M, 155M, STM-1/4/16, STM-64, OTU-2 as well as DWDM wavelengths for STM-16 and STM-64, OTU-2
- System hardware redundancy for controller, cross connect, power, and timing
- Extensive protection mechanisms (SNCP, MSP, 2/4F-MS-SPRing, DNI)
- Traffic provisioning by GMPLS

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

Data Services
- FE, FX, 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
- IEEE 802.1d Layer 2 switching
- Port/VLAN cross connection for p2p service
- 128k MAC address memory per Layer 2 card
- Jumbo Frames
- 802.3x Flow Control
- 802.1q VLAN , VLAN stacking
- 802.1w 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
- 8 QoS queues per port
- Bandwidth Scheduling and Policing
- IGMP Snooping
- Ethernet OAM compatible with ITU Y.1731 and IEEE 802.1ag
- Ethernet L2 redundancy (also across two Layer 2 cards)

- 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

Technical Data
- 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

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