

7100 Pico™ Packet Optical Transport Platform

Compact, Flexible, and Service-Enabling Solution for Metro Networks

EXTENDING THE POWER OF PACKET OPTICAL TO THE METRO EDGE

As customer requirements evolve and new applications drive the need for increased flexibility and scalability, service providers need to maximize service capabilities and network efficiencies at the edge of the network without incurring the costs and complexity of overlay networks or point-to-point solutions. With thousands of systems installed worldwide, the Coriant 7100 product family, including the Coriant™ 7100 Optical Transport System (OTS) and Coriant™ 7100 Nano™ Packet Optical Transport Platform, leads the Metro Packet Optical Transport market in flexibility, scalability, and manageability. As the newest addition to this industry-leading product family, the Coriant™ 7100 Pico Packet Optical Transport Platform enables service providers to cost-effectively extend powerful packet optical to the network edge – expanding service capabilities and reducing total cost of ownership.

DELIVERING INDUSTRY-LEADING SERVICE FLEXIBILITY IN A SMALL FORM FACTOR

In a highly compact 2RU footprint, the 7100 Pico supports all of the latest 7100 services modules. These modules include 10G and 100G transponders and muxponders, the OMM-X OTN ADM on-a-blade, and the high-density, feature-rich packet switching module – the PSM-1S. Leveraging an innovative system design with no centralized shelf processor, the 7100 Pico harnesses the processor of each intelligent services module for a truly distributed processing architecture. This approach ensures the lowest initial cost and greatest resiliency while enhancing system scalability. With the introduction of the Pico shelf, the 7100 family provides consistent, flexible, and mature networking capabilities from the core of the metro transport network all the way to the very edge.

OPTIMIZING NETWORK APPLICATION OPPORTUNITIES

With integrated OTN encapsulation and Enhanced Forward Error Correction (E-FEC) on every line side interface, the 7100 Pico supports advanced multi-channel DWDM solutions and simple grey light point-to-point and ring configurations. This formidable combination of features enables cost-effective deployment of the 7100 Pico as a stand-alone network solution or as a seamless extension to any existing Coriant 7100 OTS, Coriant™ mTera™ Universal Transport Platform, or Coriant™ hiT 7300 Multi-Haul Transport Platform network. In addition, the 7100 Pico can serve as an aggregation device for the Coriant™ 7090 Packet Transport Platform and Coriant™ 8600 Smart Router Series.

BENEFITS OF THE CORIANT™ 7100 PICO™ PLATFORM

- **Extends** industry-proven capabilities of the 7100 product family
- **Delivers** powerful packet optical to the metro edge
- **Supports** easy upgrade of existing SONET/SDH rings to OTN rings
- **Enables** high-speed data center connectivity
- **Facilitates** efficient, scalable mobile backhaul
- **Provides** enhanced business and enterprise services transport and delivery



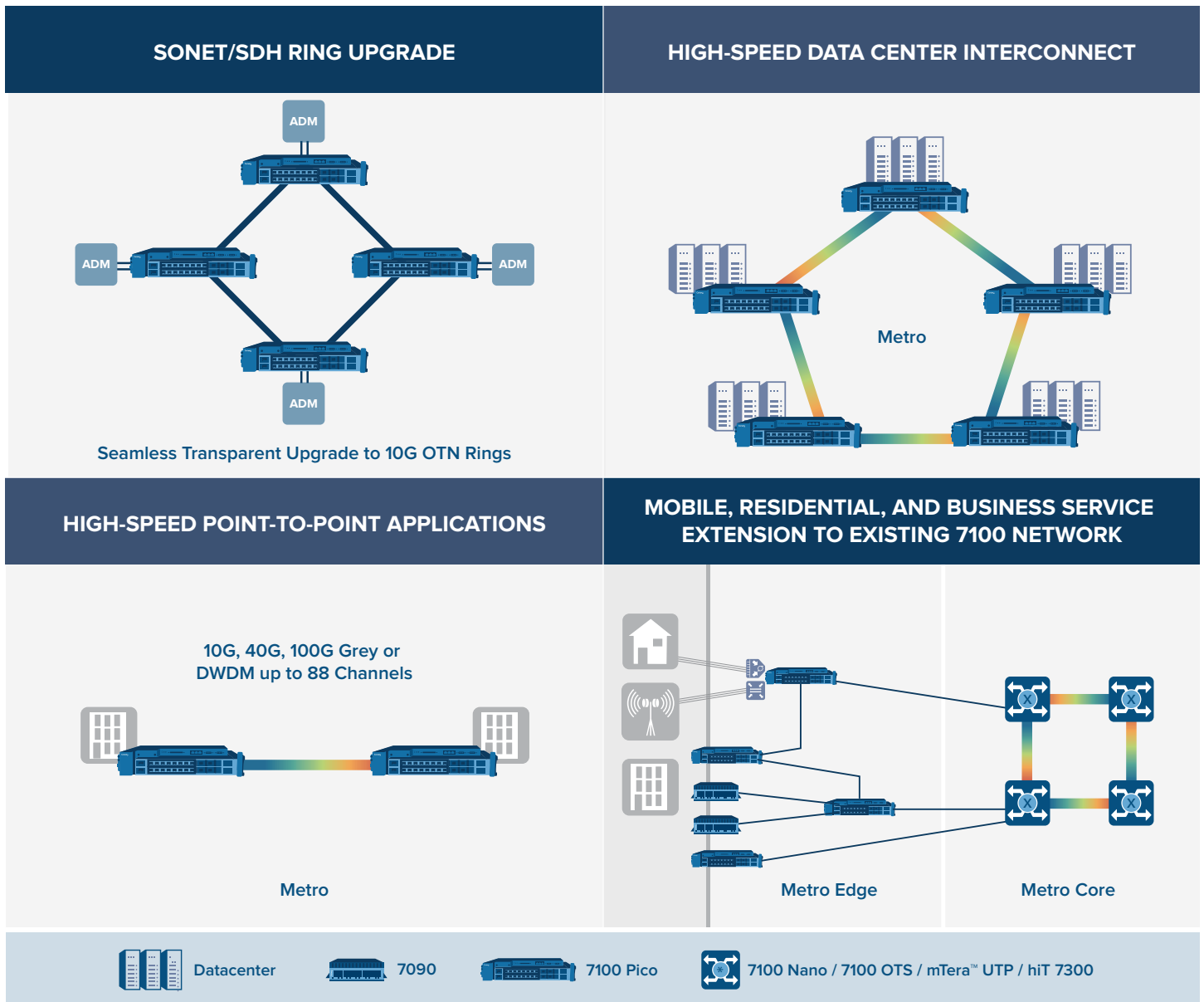


Figure 1: 7100 Pico Enables Multiple Network Solutions

7100 PICO AND THE CORIANT DYNAMIC OPTICAL CLOUD™

In addition to enabling a range of new services at the edge of the packet optical network, the 7100 Pico offering is further enhanced by Coriant’s innovative approach to Software Defined Networking (SDN) and Network Functions Virtualization (NFV). The Coriant Dynamic Optical Cloud™ Solution, which encompasses the 7100 Pico, combines a flexible transport infrastructure, dynamic network control based on the Coriant Transcend™ SDN Solution, and integrated network planning to create a powerful toolkit for multi-layer network efficiencies and next-generation service innovation in the new networked world.

Key Applications

- Improving overall network efficiency with packet optical capabilities
- Offering a highly compact and high-speed solution for efficient data center connectivity
- Enabling support for massive growth in residential and mobile bandwidth
- Upgrading existing SONET/SDH rings to OTN rings
- Providing enhanced high-speed enterprise services with integrated, cost-efficient CPE

TECHNICAL SPECIFICATIONS

Modules Supported

- OMM-X: OTN ADM on-a-blade
- HDTG2: High-density SFP+ 10G transponder module
- HGTM-S: Single slot CFP 100G transponder module
- HGTM-MS: Single slot CFP 100G muxponder module
- PSM-1S: High-density, feature-rich packet switch module

Interfaces and Redundancy

- OTU1, OTU2, OTU2e, OTU4
- 1GbE, 10GbE, 100GbE
- OC-3, OC-12, OC-48, OC-192
- STM-1, STM-4, STM-16, STM-64
- 1G/2G/4G/8G FICON, FICON Express
- 1G/2G/4G/8G/10G FC
- ESCON/SBCON
- InfiniBand
- 1G/2G ISC
- SD-SDI, HD-SDI, 3G-SDI, DVB-ASI
- Any generic rate 125 Mbps to 5 Gbps
- 1+1 redundancy on protected interfaces

Network

- 100% pluggable interfaces (SFP, SFP+, CFP)
- Grey light or DWDM line side interfaces
- Support for passive DWDM filters
- Up to 88 wavelengths at 10 Gbps and 100 Gbps
- Point-to-point or ring configurations
- Multiple protection and restoration options

Synchronization

- Transparent via OTN
- Synchronous Ethernet
- 1588v2

Management and Planning

- Direct and remote in-band via the OTN Generic Communications Channel (GCC)
- SDN support as part of the Coriant Dynamic Optical Cloud™ solution
- Coriant 7191 Craft Station
- Coriant 7196 Optical Planning Tool

- Coriant 8000 Intelligent Network Manager (INM)
- Coriant Transport Network Management System (TNMS)
- Coriant Transcend™ SDN Solution

Physical, Installation, and Power

Options

- 436.9 x 88.9 x 285 mm or 17.2 x 8.7 x 11.2 in (W x H x D)
- 19-inch, 23-inch, and ETSI support
- AC and DC power options

Environmental

- GR-3160 compliant
- ETSI Class 3.1 compliant
- UL and CE compliant
- NEBS compliant
- VCCI certified
- Option for extended temperature range

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