

Coriant Groove™ G30 Data Center Interconnect Solution

Powering Tomorrow's Cloud Experience

DELIVERING CLOUD SERVICES WITH THE CORIANT GROOVE™ G30 DCI PLATFORM

Coriant mobile and fixed data center connectivity solutions enable Internet Content Providers, Communications Service Providers, Carrier Neutral Providers, and enterprises to meet the surging demand for high speed connectivity and cloud services. Purpose-built to deliver the programmable, high speed, secure bandwidth that cloud applications require, the Coriant Groove™ G30 DCI Platform offers best-in-class low power consumption, high density, and flexibility for data center connectivity at the lowest total cost. The Groove G30 DCI Platform is an innovative 1RU modular transport solution that can be equipped as a muxponder terminal solution and as an Open Line System (OLS) optical layer solution. With open plug-and-play capabilities, the Groove G30 DCI Platform can be customized for the required application based on the installation of specific modules or sleds into the common Groove G30 chassis.

SUPPORTING MULTIPLE INTERFACES FOR INTEGRATION AND SIMPLIFIED OPERATIONS

The Groove G30 DCI Platform provides standards-based open interfaces that simplify integration and operation within cloud and data center environments. Interfaces that are supported include Command Line Interface (CLI), SNMP, and RESTCONF and NETCONF open Northbound Interfaces (NBIs) with YANG data modeling. These interfaces enable integration of the Groove G30 DCI Platform into network management system (NMS) environments and data center software defined networking (SDN) environments, and ensure full interworking with Coriant planning, management, and control solutions, including the Coriant® Transport Network Management System (TNMS) and the Coriant Transcend™ SDN Solution.

THE GROOVE G30 OPEN LINE SYSTEM (OLS) SOLUTION

Equipped as an OLS solution, the Groove G30 DCI Platform provides an open, plug-and-play optical layer solution that delivers industry-leading flexibility and three times the density over comparable offerings. With category-defining OLS capabilities, this configuration of the Groove G30 DCI Platform gives network operators the ultimate in configuration flexibility to cost efficiently address diverse Data Center Interconnect (DCI) and metro application demands, including coherent and direct detect (PAM4) interconnect.

BENEFITS OF CORIANT® DCI SOLUTIONS

- **Enable** high speed connectivity to and between data centers
- **Enhance** end-user quality of experience with best-in-class connectivity solutions
- **Reduce** total cost of ownership via industry-leading low power consumption and highest density
- **Maximize** optical transmission performance in metro, regional, or long haul DCI applications
- **Accelerate** revenue and service deployment with operational simplicity and open interfaces
- **Improve** service and application performance by extending automation from the data center to the network



Coriant Groove™ G30 DCI Platform
OLS Configuration



Coriant Groove™ G30 DCI Platform
Muxponder Configuration

Key benefits of the disaggregated and compact optical layer solution include:

- **Open line system** – prevents vendor lock-in by disaggregating the optical layer from the transmission layer and enables the Groove OLS to be paired with either Groove or third-party DCI transponder solutions
- **Industry-leading optical layer density** – supports up to 96 channels in 1RU with full WDM terminal functionality, including passive and active optical layer functions, delivering three times the density over comparable solutions and enabling significant OpEx savings via minimized footprint and power efficiencies
- **Unmatched configuration flexibility** – enables “build your own optical layer” based on plug-and-play configurable technology for coherent or direct detect (PAM4) applications including a diverse range of optical layer functions in compact modular pluggable formats such as multiplexing/demultiplexing, preamplifier, booster amplifier, local add/drop amplifier, optical channel monitoring, optical protection, OSC, OTDR, and tunable DCM functions
- **Open management** – shares common YANG model based NETCONF and RESTCONF and other northbound management and control interfaces of the Groove G30 DCI Platform for fast deployment and ease of integration into any OSS environment

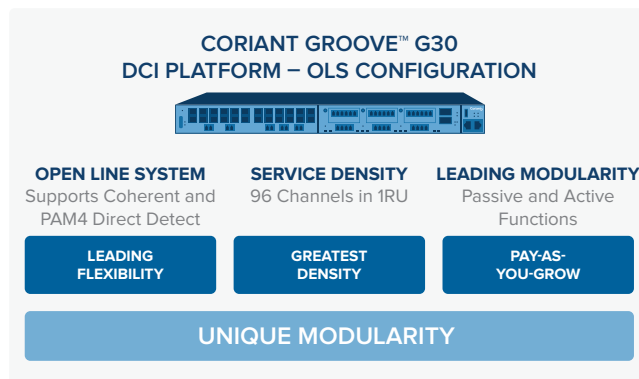


Figure 1: Coriant Groove™ G30 DCI Platform OLS Configuration

THE GROOVE G30 MUXPONDER TERMINAL SOLUTION

Equipped as a muxponder solution, the Groove G30 DCI Platform delivers 3.2 terabits of transport capacity throughput with the industry’s highest density and lowest power consumption. The Groove G30 DCI Platform enables Wide Area Network (WAN) cloud connectivity services, including 10G, 40G, and 100G client services through modular and pluggable interfaces. Powered by Coriant CloudWave™ Optics, the Groove G30 DCI Platform supports programmable DWDM line interface bandwidth and performance to optimize high-capacity transmission from 100G to 400G in metro, regional, or long haul DCI applications.

The Groove G30 DCI Platform sets new benchmarks in DCI-optimized network performance, including:

- **Highest Density** – industry-leading system density supports 3.2 Tbps in 1RU driving significant space and OpEx savings
- **Lowest Power Consumption** – 0.45W per GbE of duplex traffic enables up to 70 percent lower power consumption per 100G versus available competing products, dramatically reducing energy costs and offering OpEx savings
- **Lowest First Cost** – simple pay-as-you-grow system design and mix and match pluggable interfaces deliver the industry’s lowest first cost for 10G, 40G, and 100G services, enabling cost-efficient deployment and easy capacity scaling as data center traffic increases, as well as the lowest cost for onsite sparing
- **Leading Programmability/Reach** – powered by Coriant CloudWave™ Optics, the Groove G30 DCI Platform supports dynamically adjustable modulation formats (16QAM, 8QAM, QPSK) to deliver cost-optimized optical reach in both metro and long haul applications and enable rapid capacity increases as data center traffic escalates

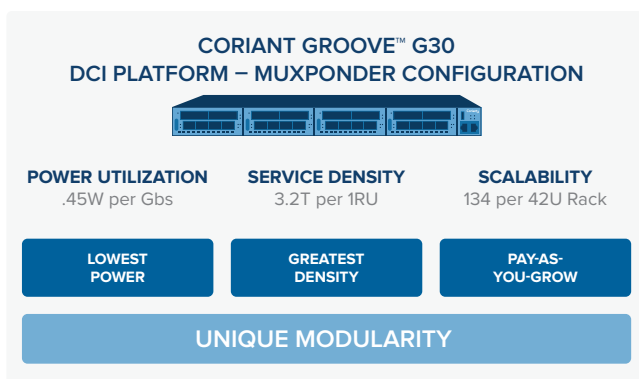


Figure 2: Coriant Groove™ G30 DCI Platform Muxponder Configuration

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