

# 7090 M Packet Transport Solutions

*Intelligent MPLS-TP Platforms for Next-Generation Networks*

## ADDRESS NETWORK GROWTH WITH PACKET TRANSPORT SOLUTIONS

Network traffic continues to grow exponentially due to expanding mobile networks and the rise of data center applications and cloud-based computing. In addition, network services are becoming increasingly dynamic with rapidly changing requirements. To meet these evolving industry needs, the Coriant Dynamic Optical Cloud™ Solution includes a packet transport component and provides network operators with unprecedented levels of scalability, efficiency, and flexibility. With packet-based granularity, oversubscription capabilities, and numerous per-flow traffic management options, service providers can cost effectively maintain high performance network requirements.

## LEVERAGE PACKET TRANSPORT FOR ALL APPLICATIONS

The Coriant® 7090 M Packet Transport Solutions offer a complete end-to-end portfolio for aggregation and switching, as shown in Figure 1. The 7090 M Series provides scalable Carrier Ethernet and MPLS-TP technology and supports the delivery of Ethernet, PDH, and SONET/SDH services over an efficient, converged packet transport infrastructure. With support for all MEF CE 2.0 certified services and circuit emulation of legacy transport interfaces, the 7090 M Series offers ideal platforms to ensure a smooth migration from traditional SONET/SDH networks to a more efficient, more scalable, and more flexible packet transport network. The 7090 M Series can be easily integrated into any transport network with features such as point-and-click end-to-end service provisioning, network protection similar to SONET/SDH, service reliability, innovative smart SFPs supporting clear channel OC-3/STM-1 and OC-12/STM-4, end-to-end OAM, high SLA assurance, and various synchronization options. The 7090 M Series provides a consistent operational model for legacy networks without sacrificing network performance or manageability.

## ENABLE INTEGRATION AND SMOOTH MIGRATION

The 7090 M Series is integrated into Coriant's end-to-end transport networking portfolio, as shown in Figure 2. Carrier Ethernet and MPLS-TP implementation is fully interoperable with the Coriant® 7100 Nano™ Packet Optical Transport Platform, Coriant® 7100 Pico™ Packet Optical Transport Platform, Coriant® hiT 7300 Multi-Haul Transport Platform, and Coriant® mTera® Universal Transport Platform, supporting a wide range of transport network applications from the edge to the core. Employing CES and PWE3 technology, the 7090 M Series enables transport of TDM services such as E1/T1 and ch-STM-1 over an efficient, converged packet transport infrastructure. By interworking with traditional MSPP/SDH equipment, the 7090 M Series ensures a smooth migration from legacy technologies to a more scalable, flexible, and efficient transport solution.

## BENEFITS OF CORIANT® 7090 M PACKET TRANSPORT SOLUTIONS

- **Improve resource utilization** with highly efficient packet transport features
- **Ease migration from TDM to packet-centric services** while building a flexible infrastructure optimized for future growth
- **Enable highly reliable packet services** with end-to-end OAM and network protection for circuit-oriented transport technologies
- **Optimize end-to-end service delivery** with a single, unified transport platform – reducing OpEx via simplified operations, fewer spares, and reduced training needs
- **Increase overall network efficiency** with advanced multi-layer optimization and fully integrated end-to-end service management
- **Grow revenue** by providing cost-effective, feature-rich MPLS-TP and Carrier Ethernet services

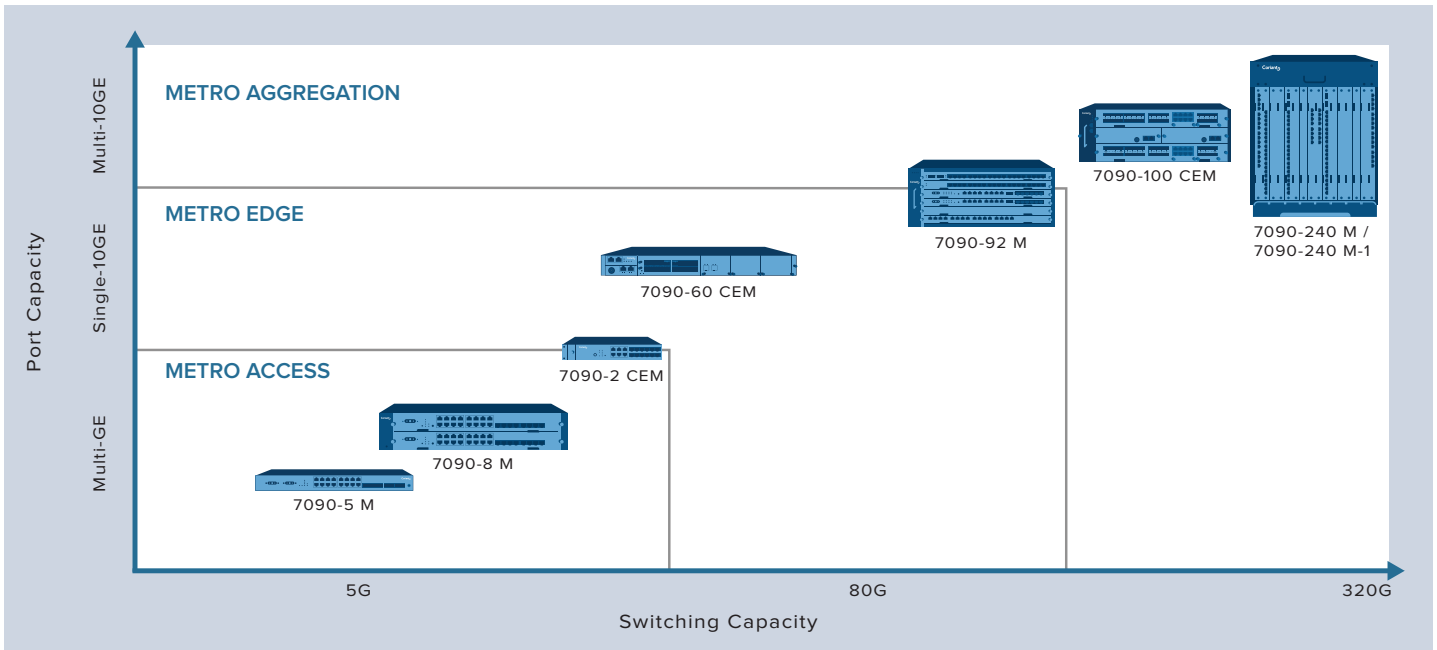


Figure 1: 7090 M Packet Transport Solutions

With a variety of service modes, interface types, climate/environment parameters, and protection capabilities, along with proven reliability and features enabling network operators to customize configurations, the 7090 M Series offers the ideal solution for mobile backhaul, residential, business, and utility networks. The 7090 M Series can be managed by the powerful Coriant® Transport Network Management System (TNMS), which spans the entire network from access to core enabling end-to-end traffic setup and maintenance for packet-based traffic.

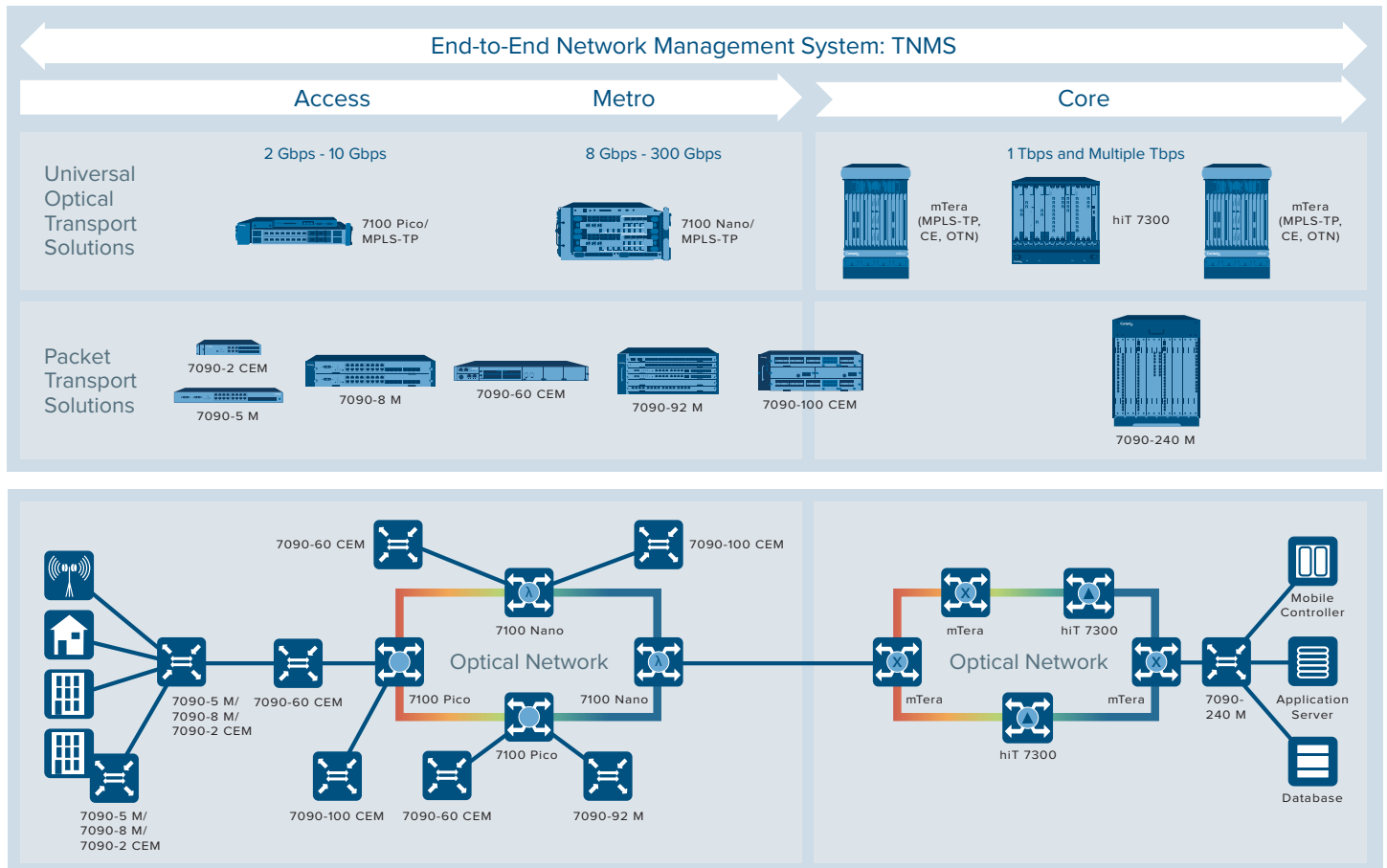


Figure 2: Coriant End-to-end Transport Networking Portfolio

	7090-240 M-1	7090-240 M	7090-100 CEM	7090-92 M	7090-60 CEM	7090-8 M	7090-5 M	7090-2 CEM
Subrack Dim (H x W x D in mm)	550 x 442 x 235	550 x 442 x 235	422 x 235 x 150	188 x 442 x 220	422 x 235 x 44.5	88.5 x 442 x 210	44.5 x 442 x 210	44.5 x 266 x 209
Subrack Height	12.5RU	12.5RU	3.5RU	4RU	1RU	2RU	1RU	1RU
Switching Capacity (GB/s)	320	240	220	92	62	8	5	16
Total Slots / Service Slots	16/14	16/11	4	6/4	3	2/2	1/1	1/1
Max 10GE Ports	28	22	16	10	4	n/a	n/a	n/a
Max GE Ports (o)	280	220	64	92	30	6	4	14
Max GE Ports (e)	280	220	64	92	30	6	4	14
Max FE Ports (o)	280	220	64	92	30	8	4	10
Max FE Ports (e)	280	220	64	92	30	8	4	14
Max STM-1/4 OC-3/12 Ports (SMART SFP)	n/a	n/a	32	n/a	15	n/a	n/a	5
Max STM-16 (SMART SFP+s)	n/a	n/a	12	n/a	2	n/a	n/a	n/a
Max STM-1 Ports	112	88	16	32	2	2	0	2
Max E1/T1 Ports	64 (E1)	64 (E1)	64 (E1/T1)	32 (E1)	32 (E1/T1)	32 (E1/T1)	16 (E1)	10 (SFP)
Max Power Consumption	920W	750W	210W	320W	83W	70W	33W	40W

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