

Your Benefits

Complete, Future-Proof Networking System

DRAGON PTN with HiProvision offers a fully integrated Ethernet-based backbone transmission system. Due to Ethernet's simplicity, interoperability, predictability and cost efficiency, these networks are becoming more popular than legacy technologies.

MPLS-TP provisioning is similar to SDH/SONET provisioning, but comes with a powerful network management system that makes it easier to provision and maintain the network. It guarantees bandwidth with the same deterministic behavior as SDH/SONET eliminating their disadvantages for packet based communication. Using MPLS-TP engineers can gradually migrate networks using limited resources. The new DRAGON PTN with HiProvision solution enables engineers to configure their networks effectively and be better prepared for future technology changes.

The cost efficient DRAGON PTN network node is offered in fully modular variants and can be configured as a completely redundant system through central switching modules and power supplies, which means administrators can ensure network availability in case of device or path failure.

With DRAGON PTN, customers get a complete, integrated solution for managing their networks from a single vendor, with MPLS-TP in the backbone layer and Layer 2 and 3 technologies, like MRP, in the access layer. With its fully modular design, DRAGON PTN with HiProvision is ready for use in extreme and harsh industrial environments.

Applications

DRAGON PTN with HiProvision is extremely valuable for scenarios where engineers need the ability to predict the behavior of data as it goes across the network. MPLS-TP technology in the new device family guarantees bandwidth and makes it easy for engineers to deploy services inside the network including redundant data transmission.

Markets

Due to the device's impressive deterministic capabilities, DRAGON PTN with HiProvision is best suited for transportation environments, including mass transit systems, railway and metro stations. The device is also ideal for other harsh, industrial environments that rely on mission-critical data transfer, including power transmission and distribution and oil and gas applications.



DRAGON PTN with HiProvision is a complete solution for managing large transmission networks and supports deterministic data transfer in harsh, industrial environments.



Technical Information

Accessories (continued)		
Type	DRAGON PTN2215 / PTN2210 / PTN2209 / PTN2206 / PTN1104	
SFPs (ordered separately)		
PTN-SFP-CWDM-EX-1471	942 245-001	SFP CWDM - EX - 1471 nm
PTN-SFP-CWDM-EX-1491	942 245-002	SFP CWDM - EX - 1491 nm
PTN-SFP-CWDM-EX-1511	942 245-003	SFP CWDM - EX - 1511 nm
PTN-SFP-CWDM-EX-1531	942 245-004	SFP CWDM - EX - 1531 nm
PTN-SFP-CWDM-EX-1551	942 245-005	SFP CWDM - EX - 1551 nm
PTN-SFP-CWDM-EX-1571	942 245-006	SFP CWDM - EX - 1571 nm
PTN-SFP-CWDM-EX-1591	942 245-007	SFP CWDM - EX - 1591 nm
PTN-SFP-CWDM-EX-1611	942 245-008	SFP CWDM - EX - 1611 nm
PTN-SFP-CWDM-ZX-1471	942 245-009	SFP CWDM - ZX - 1471 nm
PTN-SFP-CWDM-ZX-1491	942 245-010	SFP CWDM - ZX - 1491 nm
PTN-SFP-CWDM-ZX-1511	942 245-011	SFP CWDM - ZX - 1511 nm
PTN-SFP-CWDM-ZX-1531	942 245-012	SFP CWDM - ZX - 1531 nm
PTN-SFP-CWDM-ZX-1551	942 245-013	SFP CWDM - ZX - 1551 nm
PTN-SFP-CWDM-ZX-1571	942 245-014	SFP CWDM - ZX - 1571 nm
PTN-SFP-CWDM-ZX-1591	942 245-015	SFP CWDM - ZX - 1591 nm
PTN-SFP-CWDM-ZX-1611	942 245-016	SFP CWDM - ZX - 1611 nm
PTN-SFP-SX-850	942 245-017	SFP 850 nm - SX (Multimode)
PTN-SFP-LX-1310	942 245-018	SFP 1310 nm - LX
PTN-SFP-EX-1310	942 245-019	SFP 1310 nm - EX
PTN-SFP-ZX-1550	942 245-020	SFP 1550 nm - ZX
PTN-SFP-OX-1550	942 245-021	SFP 1550 nm - OX
PTN-SFP-EZ-1550	942 245-022	SFP 1550 nm - EZ
PTN-SFP-BIDI-1310-20	942 245-023	SFP 1310 nm - BIDI - 20 km
PTN-SFP-BIDI-1550-20	942 245-024	SFP 1550 nm - BIDI - 20 km
PTN-SFP-BIDI-1490-80	942 245-025	SFP 1490 nm - BIDI - 80 km
PTN-SFP-BIDI-1590-80	942 245-026	SFP 1590 nm - BIDI - 80km
PTN-RJ45-SFP	942 245-027	Electrical Gigabit Ethernet SFP module RJ45
SFP C37 (ordered separately)		
PTN-SFP-C37.94-850	942 245-028	SFP for C37.94 - 850 nm Multimode
PTN-SFP-C37.94-1310	942 245-029	SFP for C37.94 - 1310 nm Singlemode
Smart SFP (ordered separately)		
PTN-SMART-SFP-STM-1/OC-3	942 245-028	Smart SFP to transport STM-1/OC-3 transparent (S1 Optic)
PTN-SMART-SFP-STM-4/OC-12	942 245-029	Smart SFP to transport STM-4/OC-12 transparent (S1 Optic)
PTN-SMART-SFP-STM-1/OC-3-L2	942 245-035	Smart SFP to transport STM-1/OC-3 transparent (L2 Optic).
PTN-SMART-SFP-STM-4/OC-12-L2	942 245-036	Smart SFP to transport STM-4/OC-12 transparent (L2 Optic).
PTN-SMART-SFP-STM-1/OC-3-L1	942 245-037	Smart SFP to transport STM-1/OC-3 transparent (L1 Optic).
PTN-SMART-SFP-STM-4/OC-12-L1	942 245-038	Smart SFP to transport STM-4/OC-12 transparent (L1 Optic).
PTN-SMART-SFP-STM-1/OC-12-L1	942 245-039	Smart SFP for channelised STM-1/OC-12 (Grooming E1) (S1 Optic).
XFP (ordered separately)		
PTN-XFP-SR-850	942 246-001	XFP 850 nm - SR (Multimode)
PTN-XFP-LR-1310	942 246-002	XFP 1310 nm - LR
PTN-XFP-ER-1550	942 246-003	XFP 1550 nm - ER
PTN-XFP-ZR-1550	942 246-004	XFP 1550 nm - ZR
PTN-XFP-XR-1550	942 246-005	XFP 1550 nm - XR
XFP DWDM (ordered separately)		
PTN-XFP-DWDM-ER-xx (xx = Channel Number)	942 247-0xx	XFP DWDM - ER (Channel xx) (Channel 19-60)
PTN-XFP-DWDM-ZR-xx (xx = Channel Number)	942 248-0xx	XFP DWDM - ZR (Channel xx) (Channel 17-61)
40 Gig QSFP (ordered separately)		
PTN-QSFP-BIDI	942 296-001	40G QSFP-BIDI 0.1 km
PTN-QSFP-LR4-lite	942 296-002	40G QSFP-LR4-lite 2 km
PTN-QSFP-LR4	942 296-003	40G QSFP-LR4 10 km
PTN-QSFP-ER4	942 296-004	40G QSFP-ER4 40 km

NOTE: These are the prominent technical specifications. For complete technical specifications visit: www.doc.hirschmann.com

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DRAGON PTN with HiProvision

MPLS-TP Product Family with Network Provisioning System

This backbone device, configured using HiProvision provisioning software, offers a reliable, packet-based MPLS-TP technology to transport mission-critical data through large networks.

- Ensure **dedicated bandwidth** with low-cost, interoperable MPLS-TP technology.
- Easily configure and manage complex networks** with intuitive provisioning software.
- Fully redundant system** with multiple switching modules and power supply options.
- Seamlessly integrate legacy systems** through variety of redundant interface card options.

Key Features

- MPLS-TP technology delivers dedicated bandwidth for different services and 50ms protection switching
- HiProvision software for easy configuration and management of large transmission networks
- Industrial HiVision integration for backbone and access network
- Variety of interface modules and port types to ensure flexibility and seamless integration of legacy systems
- Resilient against harsh conditions with operating temperatures varying from -30 °C to +65 °C
- Redundant central switching modules and power supplies guarantee high network availability



The Hirschmann DRAGON PTN managed by the HiProvision software offers a variety of interface options for flexible integration in your network.

**Be certain.
Belden.**

