



## Product information DRAGON PTN2209

<b>Industrial Ethernet:DRAGON PTN:Chassis:DRAGON PTN2209</b>	
<a href="http://dev-catalog.beldensolutions.com/link/57078-24455-502485-502487-502627/en/conf/uistate">http://dev-catalog.beldensolutions.com/link/57078-24455-502485-502487-502627/en/conf/uistate</a>	
<b>Name</b>	<b>DRAGON PTN2209</b>
	
	Full Gigabit MPLS-TP Switch with Switch with 9 interface options supporting 10 Gigabit XFP ports and L3 option, Advanced Packet Transport features, redundant design with redundant CPU and power supply, 1 L3 and 8 interface positions
<b>Delivery informations</b>	
<b>Availability</b>	available
<b>Product description</b>	
<b>Description</b>	Full Gigabit MPLS-TP Switch with Switch with 9 interface options supporting 10 Gigabit XFP ports and L3 option, Advanced Packet Transport features, redundant design with redundant CPU and power supply, 1 L3 and 8 interface positions
<b>Port type and quantity</b>	Up to 4 x 10 Gigabit Ethernet and 27 x 1 Gigabit Ethernet L2/L3, modular design with various module configurations (PTN-4-E1T1-L, PTN-7-SERIAL, PTN-2-OLS, etc.), hot pluggable modules and power supply, future proof 40 Gigabit Ethernet (available soon)
<b>Type</b>	DRAGON PTN2209
<b>Order No.</b>	942 228-003
<b>Number of Interface Slots</b>	Total Slots: 2 x CPU + 2 x Power Supply + 9 x Interface Cards
<b>Classification</b>	
<b>Belden brand</b>	Hirschmann
<b>Network size - cascading</b>	
<b>Line - / star topology</b>	any
<b>Scalability</b>	From 10/100 Mbps to 40 Gbps aggregation of traffic; Scalability through MPLS-TP; Scalable switching capacity from 64 Gbps to 720 Gbps; Nodes with 4 interface positions up to 15 interface positions
<b>Power requirements</b>	
<b>Operating voltage</b>	Built-in power supply - Internal and redundant, 175 W up to 1000 W rated power, PoE up to 480 W
<b>Software</b>	
<b>MPLS-TP Service Types</b>	Point to point service (VPWS); Multipoint (VPLS); Logical Ethernet Ring; Protection schemes (1:1, Hitless Switching, ERP logical Rings)
<b>Layer 2 Ethernet Aggregation</b>	MSTP (multiple spanning tree); Multicast handling through IGMP; Virtual forwarding instances; VLAN handling; Broadcast and multicast storm control
<b>Quality of Service (QoS)</b>	Service priority scheduling independent from user traffic to ensure transport functionality of all traffic; End to end traffic engineering through HiProvision; 8 Priorities (6 user definable) Per flow statistics and port counters; 4k Flexible queues; Handling of priority queues Strict Priority Based
<b>Management Software</b>	HiProvision platform for user friendly and fast deployment of the network. Supported by the automatic setup of the DCN and OAM features for continuous monitoring. SNMP v1/v2/v3
<b>Management</b>	Auto provisioned and auto setup DCN for management; Full SNMP v3 management (no CLI needed); Management port on each CSM module; 2 input contacts allowing forwarding of local alarms to the TXCare platform; 2 output contacts for local triggering of alarms; Removable memory allowing easy replacement of CSM in the field; Hardware supported OAM; Automatic protection switching via BFD; LSP ping and LSP trace via BFD; Performance monitoring based on Y.1731 Loss and Delay
<b>Diagnostics</b>	Advanced monitoring capabilities based on MPLS-TP OAM enhancements
<b>Security</b>	Sticky MAC for easy locking of MAC address per service; MAC and IP based ACL; SNMPv3 encryption and authentication; Disable unused ports Locked Node ID's; Logical separation of services; Centralized user authentication and central event logging; Audit trail
<b>Switching</b>	Sub 50ms protection switching in all network topologies (MPLS-TP); Non-blocking 64 Gbps; 95 Mpps (Layer 2 throughput); MTU up to 9k; 32k MAC addresses; 4k Layer 2 Multicast entries; 2k VFI; 4k MPLS entries; BFD hardware support
<b>Ambient conditions</b>	
<b>Operating temperature</b>	-20 °C ... 65 °C
<b>Storage/transport temperature</b>	-30 °C ... 75 °C
<b>Relative humidity (non-condensing)</b>	10 % ... 95 %
<b>MTBF (Telcordia)</b>	665 years years; Telcordia SR-332; Gb 25°C
<b>Mechanical construction</b>	
<b>Dimensions (W x H x D)</b>	434 mm x 132.5 mm x 210 mm
<b>Mounting</b>	19" Control Cabinet or DIN-Rail
<b>Protection class</b>	IP20

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#### Approvals

<b>Basis Standard</b>	C-Tick, CE, EN 61131
<b>Safety of industrial control equipment</b>	IEC 61850-3, IEEE 1613
<b>Transportation</b>	EN50121-4

For more information please contact:

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