



Product information DRAGON PTN2210

Industrial Ethernet:DRAGON PTN:Chassis:DRAGON PTN2210	
http://dev-catalog.beldensolutions.com/link/57078-24455-502485-502487-502488/en/conf/uistate	
Name	DRAGON PTN2210
	
	Full Gigabit MPLS-TP Switch with 10 interface options supporting 10 Gigabit XFP ports, Advanced Packet Transport features, redundant design with redundant CPU and power supply
Delivery informations	
Availability	available
Product description	
Description	Full Gigabit MPLS-TP Switch with 10 interface options supporting 10 Gigabit XFP ports, Advanced Packet Transport features, redundant design with redundant CPU and power supply
Port type and quantity	Up to 4 x 10 Gigabit Ethernet and 23 x 1 Gigabit Ethernet, 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)
Type	DRAGON PTN2210
Order No.	942 228-004
Number of Interface Slots	Total Slots: 2 x CPU + 2 x Power Supply + 10 x Interface Cards
Classification	
Belden brand	Hirschmann
Network size - cascading	
Line - / star topology	any
Scalability	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
Power requirements	
Operating voltage	Built-in power supply - Internal and redundant, 175 W up to 1000 W rated power, PoE up to 480 W
Software	
MPLS-TP Service Types	Point to point service (VPWS); Multipoint (VPLS); Logical Ethernet Ring; Protection schemes (1:1, Hitless Switching, ERP logical Rings)
Layer 2 Ethernet Aggregation	MSTP (multiple spanning tree); Multicast handling through IGMP; Virtual forwarding instances; VLAN handling; Broadcast and multicast storm control
Quality of Service (QoS)	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
Management Software	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
Management	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
Diagnostics	Advanced monitoring capabilities based on MPLS-TP OAM enhancements
Security	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
Switching	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
Ambient conditions	
Operating temperature	-30 °C ... 65 °C
Storage/transport temperature	-30 °C ... 75 °C
Relative humidity (non-condensing)	10 % ... 95 %
MTBF (Telcordia)	665 years years; Telcordia SR-332; Gb 25°C
Mechanical construction	
Dimensions (W x H x D)	434 mm x 132.5 mm x 210 mm
Mounting	19" Control Cabinet or DIN-Rail
Protection class	IP20

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Approvals

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

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