Prisma SD-WAN Wireless IONs Datasheet

Enterprises have traditionally deployed multiprotocol label switching (MPLS) networks, using hardware routers, to connect branch offices to centralized data centers. With cloud adoption on the rise, end user applications like video conferencing and office productivity solutions are increasingly delivered as cloud services. Legacy WAN architectures have debilitating limitations when organizations attempt to migrate to the cloud or utilize commodity internet connections in their branch offices.

For SD-WAN, you need a networking solution that:

• Steers traffic and defines networking and security policies from an application-centric perspective, rather than a packet-based one.

• Minimizes manual operations and enables agile DevOps deployments via API integrations.

• Supports the cloud-delivered branch architecture by enabling all branch infrastructure, such as networking and security, to be delivered from the cloud.

Benefits

Prisma SD-WAN solution can be categorized into 2 key components - Prisma SD-WAN Controller and Prisma SD-WAN ION. Prisma SD-WAN Controller provides the single pane of glass view for SD-WAN lifecycle management and Prisma SD-WAN IONs are installed at branch locations or at the data centers. The Prisma SD-WAN controller is hosted and managed by Palo Alto Networks, installed in a public cloud. Prisma SD-WAN IONs are delivered either as physical devices or virtual devices. Prisma SD-WAN IONs are available in 5 flavors - ION 1000, ION 2000, ION 3000, ION 7000 and ION 9000. Prisma SD-WAN provides complete transport agnostic capabilities and can run on any WAN transport (with Ethernet handoff).

Prisma SD-WAN ION devices offer:

• **Zero-touch provisioning and deployment:** Gain the advantage of automatic configuration and device claiming.

• **Instant visibility into application performance**: Understand how applications are performing and identify the root cause of app performance issues.

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· **Cloud and SaaS application deployment confidence:** Meet the performance and availability demands required, including remote office WAN high availability, bandwidth, consistent latency, and dynamic path selection

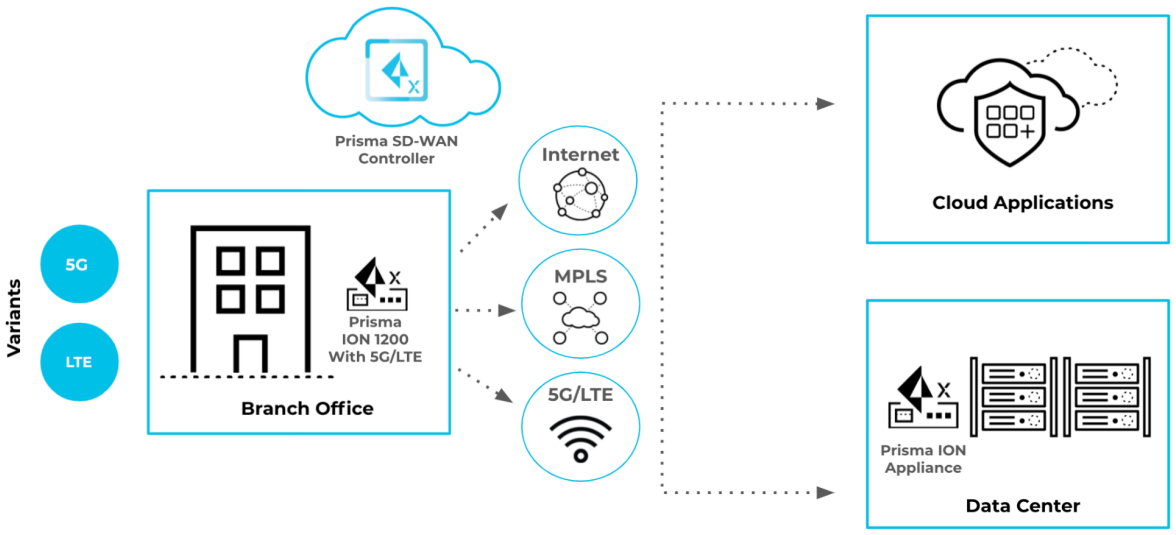

***Figure:** Prisma SD-WAN Architecture with Wireless WAN Capable ION at Branch Office*

Adding Wireless WAN to Prisma SD-WAN

Large number of enterprises today are either consuming or exploring a future with a wireless WAN network to enhance their network resiliency. These enterprises range from using the Wireless WAN as failover or as primary connectivity or as means for startup connectivity. This also augments additional network bandwidth. As 4G/5G becomes increasingly prominent and cost conducive; more enterprises are using wireless WAN links as primary WAN transports.

Adding on to the above listed 5 Prisma SD-WAN ION flavors, Palo Alto Networks is coming out with new platforms targeting wireless WAN markets to support both 4G and 5G networks. Traditionally, Prisma SD-WAN customers would have to use a third party 4G or 5G termination device with the ION device. With the new platforms (1200 series), support would be available for native 4G (Cat7) and 5G (Sub-6Ghz). The hardware footprint of the new ION would be a fanless desktop form factor.

This will allow Palo Alto Networks to position devices for SD-WAN locations including Enterprise small branch, retail, commercial locations and ATM/ Kiosks / mobile clinic deployments.

These devices would be deployed in indoor enterprise office locations.

ION 1200 Series hardware specifications

	ION1200-C	ION-1200-C-5G-WW
Type	Indoor	Indoor
Module	4G CAT 7 Modem	5G Sub 6Ghz Modem
Number of Antennas	3x SMA External	4x SMA External
Controller ports	Any RJ-45 port	Any RJ-45 port
WAN/LAN/Internet ports	4 x RJ-45	4 x RJ-45
Bypass pairs	N/A	N/A
Port Speeds	10/100/1000 Mbps	10/100/1000 Mbps
Throughput	TBD	TBD
Memory	4GB DDR4	4GB DDR4
Power and Mechanical	40W,100mA @110V Fanless	40W,100mA @110V Fanless
Certifications	FCC, CE B, RoHS,FIPS	FCC, CE B, RoHS,FIPS
Operating temperature (3000m altitude)	32 °F - 104°F (0°C-40°C)	32 °F - 104°F (0°C-40°C)
Storage temperature	-4°F - 158°F (-20°C - 70°C)	-4°F - 158°F (-20°C - 70°C)
Operating humidity (non-condensing)	10-90%	10-90%
Storage humidity (non-condensing)	10-90%	10-90%
Dimensions (WxHxD)	242mm x 44mm x 63mm (9.53”x1.73”x6.42”)	242mm x 44mm x 63mm (9.53”x1.73”x6.42”)
Weight (lbs)	4	4
Mount options	Desktop,Wall	Desktop,Wall

ION 1200 series Cellular specifications

	ION1200-C-NA	ION1200-C-ROW	ION1200-C-5G-WW
Supported RF bands	**LTE:** B1,B2,B4,B5,B7,B12,B14,B25, B26,B41,B42,B43, B48,B66,B71	**LTE:** B1,B3,B7,B8,B20,B2,B32,B38 ,B40,B41,B42,B43	**LTE**: B1,B2,B3,B5,B7,B8, B12,B13,B14,B17,B18,B19,B20, B25,B26,B28,B29,B30,B32,B 34,B38,B39, B40,B41,B42,B46,B48, B66,B71 **5GNR:** n1,n2,n3,n5,n28,n41,n66,n71, n77,n78,n79
Industry Certifications	PTCRB	GCF	PTCRB, GCF