

DATA SHEET

iplengine®

Ipanema SD-WAN Appliances



Ipanema SD-WAN from Infovista brings unprecedented application intelligence to the enterprise WAN. The solution combines software and hardware components, with native routing and centralized orchestration for flexibility in deployment. The fully featured hardware components are called **iplengines**.

Overview

The **iplengines** model range covers enterprise sites from branch-office to head-quarters and data centers. It is tiered according to the capacity of WAN accesses, bandwidth and functionality. The range delivers all Ipanema application intelligence micro-services, including: Application Visibility, Application Control, WAN Optimization, Dynamic WAN Selection and WAN Security. Application Intelligence Plus enhancements including Troubleshooting and Traffic Directory are also available.

- **Ipanema SD-WAN** links application performance over the network with business objectives.
- **Self-learning, self-adapting and self-healing**, Ipanema brings application intelligence to the business WAN.
- **Application Visibility** provides full understanding of application usage and performance over the global network – from the individual session level to SLA-based application performance management.
- **Application Control** dynamically adjusts network behavior and resources to the exact application traffic demand – guaranteeing critical application performance in the most complex and changing traffic situations.
- **WAN Optimization** accelerates application response times and offers additional virtual bandwidth to the network.
- **Dynamic WAN Selection** enables dynamic hybrid WAN for multinetworked branch offices, selecting in real-time the best path according to actual performance and application traffic characteristics.
- **WAN Security** protects branch Internet connections from threats, encrypting traffic over IP VPNs to public and private DCs. It forwards traffic to secure gateway providers and regulates traffic over the internet.

TECHNICAL SPECIFICATION

Model	iple 30 so	iple 30ax	iple 40so	iple 40ax	iple 40so v2	iple 40ax v2	iple 400ax	iple 2000ax
Deployment Mode	MultiWAN (1L/3W)	MultiWAN (1L/3W)	MultiWAN (1L/3W)	MultiWAN (1L/3W)	MultiWAN (1L/3W)	MultiWAN (1L/3W)	MultiWAN (1L/3W)	MultiWAN (1L/3W)
Network interfaces	Gigabit Ethernet 10/100/1000Base-TX	Gigabit Ethernet 10/100/1000Base-TX	Gigabit Ethernet 10/100/1000Base-TX	Gigabit Ethernet 10/100/1000Base-TX	Gigabit Ethernet 10/100/1000Base-TX	Gigabit Ethernet 10/100/1000Base-TX	Gigabit Ethernet 10/100/1000Base-TX	Gigabit Ethernet 10/100/1000Base-TX or 1000Base-SX/LX LC or 10GBase-SR/LR LC
WAN Interface Type (L2/L3)	L3	L3	L3	L3	L3	L3	L3	L3
Visibility, Control and DWS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wan Optimization	No	Yes	No	Yes	No	Yes	Yes	Yes
SSL Optimization	No	Yes	No	Yes	No	Yes	Yes	Yes
Cloud Application Discovery	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Routing	Ipv4	Ipv4	Ipv4	Ipv4	Ipv4	Ipv4	Ipv4	Ipv4
Routing Protocol (Lan/Wan)	Static, BGP, OSPF	Static, BGP, OSPF	Static, BGP, OSPF	Static, BGP, OSPF	Static, BGP, OSPF	Static, BGP, OSPF	Static, BGP, OSPF	Static, BGP, OSPF
Lan Network Services	DHCP Relay	DHCP Relay	DHCP Relay	DHCP Relay	DHCP Relay	DHCP Relay	DHCP Relay	DHCP Relay
Wan Network Services	NAT, DHCP Client	NAT, DHCP Client	NAT, DHCP Client	NAT, DHCP Client	NAT, DHCP Client	NAT, DHCP Client	NAT, DHCP Client	NAT, DHCP Client
Local Break Out (1)	Implicit	Implicit	Implicit	Implicit	Implicit	Implicit	Implicit	Implicit
Firewall (2)	Implicit	Implicit	Implicit	Implicit	Implicit	Implicit	Implicit	Implicit
External Gateway Support	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Overlay Tunnelling	Ipssec	Ipssec	Ipssec	Ipssec	Ipssec	Ipssec	Ipssec	Ipssec
Topology	Automatic Hub&Spoke	Automatic Hub&Spoke	Automatic Hub&Spoke	Automatic Hub&Spoke	Automatic Hub&Spoke	Automatic Hub&Spoke	Automatic Hub&Spoke	Automatic Hub&Spoke
	Manual Spoke to Spoke	Manual Spoke to Spoke	Manual Spoke to Spoke	Manual Spoke to Spoke	Manual Spoke to Spoke	Manual Spoke to Spoke	Manual Spoke to Spoke	Manual Spoke to Spoke
High Availability (VRRP)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Number of Users	<100	<100	<100	<300	<300	<300	<5000	< 50,000
Total Number of Connections	5,000	5,000	5,000	15,000	15,000	15,000	256,000	512,000
Max Encryption (IPsec)	100 Mbps	100 Mbps	30 Mbps	30 Mbps	100 Mbps	100 Mbps	400 Mbps	1 Gbps-2 Gbps (3)
Total Compression	N/A	40 Mbps	N/A	20 Mbps	N/A	80 Mbps	150 Mbps	500 Mbps
SRE Connections	N/A	500	N/A	2,000	N/A	2,000	10,000	20,000
SSL Opt. Server Side Connections	N/A	N/A	N/A	N/A	N/A	N/A	10,000	14,000
SSL Opt. Client Side Connections	N/A	500	N/A	500	N/A	500	10,000	14,000
Ipssec Tunnels	12	12	12	12	24	24	256	1024

TECHNICAL CHARACTERISTICS

1. Maximum stated throughput is full duplex and achieved using typical mix of traffic within an environment not exceeding the maximum number of supported users.
2. WAN Optimization capacity is the part of WAN throughput that can be expected to be optimized.
3. Maximum numbers of supported users are calculated assuming typical activity, for a branch-office (x0 & x00 series) and for a Data Center (xx00 series).
4. Disk sizes are the raw capacity of the HDD/SDD units supplied.
5. All power supplies: 100-240V 47-63Hz
6. Max if all traffic is encrypted (IPsec) means: the appliance encrypts 100% of the traffic within IPsec tunnels.

ADVANCED CAPACITIES FOR SD-WAN

Local Break Out (1):

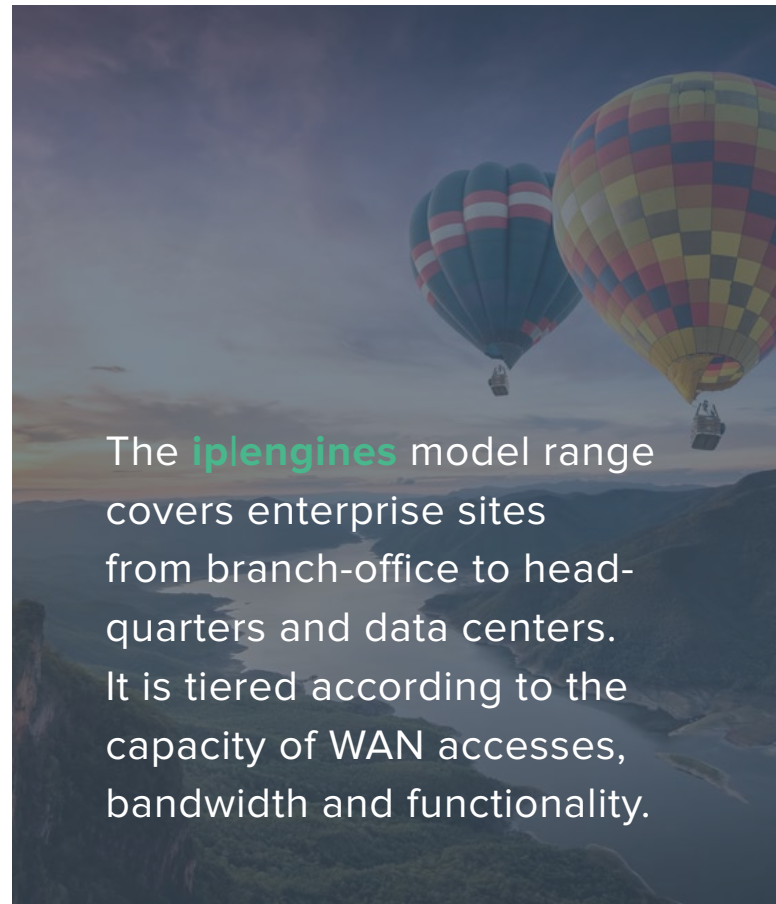
- NAT must be enable on Internet Access.
- All outbound TCP/UDP connections from hosts in the LAN to hosts in the Internet are allowed and NATed on Internet Access.
- All inbound TCP/UDP connections from hosts in Internet to hosts in the LAN are denied.

Firewall (2):

- Active on Internet Access access when NAT is enabled; with the following default rules.
- All outbound TCP/UDP connections from hosts in the LAN to hosts in the Internet are allowed and NATed on Internet Access.
- All inbound TCP/UDP connections from hosts in Internet to hosts in the LAN are denied.

Iple 2000ax (3):

- 2 Gbps with iple 2000ax 10G



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About Infovista

Infovista, the leader in modern network performance, provides complete visibility and unprecedented control to deliver brilliant experiences and maximum value with your network and applications. At the core of our approach are data and analytics, to give you real-time insights and make critical business decisions. Infovista offers a comprehensive line of solutions from radio network to enterprise to device throughout the lifecycle of your network. No other provider has this completeness of vision. Network operators worldwide depend on Infovista to deliver on the potential of their networks and applications to exceed user expectations every day. Know your network with Infovista.