HP IntelliJack Gigabit Switch Series

Data sheet

Product overview

HP IntelliJack Gigabit switches are compact 10/100/1000 switches that can be installed in a standard wall outlet box, quickly converting an existing single-port LAN wall outlet into four switched Gigabit Ethernet ports. These "network jacks" provide a simple solution for adding network ports without running more cabling. Unlike conventional desktop switches, HP IntelliJack devices reside out of the way—literally in-the-wall—and so are more secure from theft and difficult to accidentally disconnect or damage. The innovative HP IntelliJack switches provide four Ethernet ports for local connectivity plus one uplink port. Two additional RJ-45 "pass-through ports" flexibly support a range of additional service and user connectivity options. It can be powered locally or via Power over Ethernet (PoE), and can output standard PoE on up to two ports to directly power attached devices such as IP phones or wireless access points.

Key features

- Innovative switch with in-the-wall installation
- Easy, secure port expansion without new cabling
- PoE/PoE+ powered with PoE forwarding
- Available Web-managed and unmanaged models
- 3-year warranty

Features and benefits

Quality of Service (QoS)

- **IEEE 802.1p prioritization:** delivers data to devices based on the priority and type of traffic

Connectivity

- **Auto-MDIX:** automatically adjusts for straight-through or crossover cables on all 10/100 and 10/100/1000 ports

- **Jumbo packet support:** supports up to 9216-byte frame size to improve performance of large data transfers

Performance

- **Half-/Full-duplex autonegotiating capability on every port:** doubles the throughput of every port

Resiliency and high availability

- **IEEE 802.3ad Link Aggregation Control Protocol (LACP):** aggregate connections for greater overall throughput (managed IntelliJack NJ2000G only)

Manageability

- **Choice of smart managed and unmanaged models:** HP IntelliJack NJ2000G model has an intuitive Web interface for setup of features such as virtual LANs, link aggregation, and 802.1X Network Login; HP IntelliJack NJ1000G is an unmanaged plug-and-play wall-mount switch with no customization capabilities

Layer 2 switching

- **VLAN support and tagging:** support up to 64 port-based VLANs and dynamic configuration of IEEE 802.1Q VLAN tagging, providing security between workgroups (managed IntelliJack NJ2000G only)

Security

- **IEEE 802.1X Network Login:** control port-based access for authentication and accountability (managed IntelliJack NJ2000G only)

Ease of use

- **Flow control:** helps ensure reliable communications during full-duplex operation

- **Comprehensive LED display with per-port indicators:** provides an at-a-glance view of status, activity, speed, and full-duplex operation

Flexibility

- **Designed with no fan:** enables quiet operation for deployment in open spaces

Warranty and support

- **3-year warranty:** with advance replacement and next-business-day delivery (available in most countries)

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Specifications

	HP NJ1000 1Gb IntelliJack Switch (JD050A)	HP NJ2000 1Gb IntelliJack Switch (JD057A)
Ports	4 RJ-45 auto-sensing 10/100/1000 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T); Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only	4 RJ-45 auto-sensing 10/100/1000 ports (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T); Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only
	2 RJ-45 pass through ports	2 RJ-45 pass through ports
	1 RJ-45 auto-sensing 10/100/1000 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T); Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only	1 RJ-45 auto-sensing 10/100/1000 port (IEEE 802.3 Type 10Base-T, IEEE 802.3u Type 100Base-TX, IEEE 802.3ab Type 1000Base-T); Duplex: 10Base-T/100Base-TX: half or full; 1000Base-T: full only
Physical characteristics		
Dimensions	1.57(d) x 3.15(w) x 5.12(h) in. (4.0 x 8.0 x 13.0 cm)	1.57(d) x 3.15(w) x 5.12(h) in. (4.0 x 8.0 x 13.0 cm)
Weight	1.1 lb. (0.5 kg)	1.1 lb. (0.5 kg)
Full configuration weight	1.1 lb. (0.5 kg)	1.1 lb. (0.5 kg)
Mounting	Mounts in wall or desktop with optional mounting stand	Mounts in wall or desktop with optional mounting stand
Performance		
Switching capacity	10 Gbps	10 Gbps
Environment		
Operating temperature	32°F to 104°F (0°C to 40°C)	32°F to 104°F (0°C to 40°C)
Operating relative humidity	10% to 90%, non-condensing	10% to 90%, non-condensing
Non-operating/Storage temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Non-operating/Storage relative humidity	5% to 90%, non-condensing	5% to 90%, non-condensing
Electrical characteristics		
DC Voltage	-46 to -50 VDC	-46 to -50 VDC
Notes	Can also be powered via 802.3at PoE+	Can also be powered via 802.3at PoE+
Safety	CSA; C-Tick; NOM	CSA; C-Tick; NOM
Emissions	FCC part 15 Class A; VCCI Class A; ICES-003 Class A	FCC part 15 Class A; VCCI Class A; ICES-003 Class A
Services	3-year, 4-hour onsite, 13x5 coverage for hardware (UV979E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UV982E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UV980E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UV983E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UV981E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UV984E) 3 Yr 6 hr Call-to-Repair Onsite (UW042E) 4 Yr 6 hr Call-to-Repair Onsite (UW043E) 5 Yr 6 hr Call-to-Repair Onsite (UW044E) Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.	3-year, 4-hour onsite, 13x5 coverage for hardware (UV979E) 3-year, 4-hour onsite, 24x7 coverage for hardware (UV982E) 4-year, 4-hour onsite, 13x5 coverage for hardware (UV980E) 4-year, 4-hour onsite, 24x7 coverage for hardware (UV983E) 5-year, 4-hour onsite, 13x5 coverage for hardware (UV981E) 5-year, 4-hour onsite, 24x7 coverage for hardware (UV984E) 3 Yr 6 hr Call-to-Repair Onsite (UW042E) 4 Yr 6 hr Call-to-Repair Onsite (UW043E) 5 Yr 6 hr Call-to-Repair Onsite (UW044E) Refer to the HP website at www.hp.com/networking/services for details on the service-level descriptions and product numbers. For details about services and response times in your area, please contact your local HP sales office.

| **Standards and protocols**
(applies to all products in series) | **General protocols**
IEEE 802.1Q VLANs
IEEE 802.1X PAE
IEEE 802.3ab 1000BASE-T
IEEE 802.3ad Link Aggregation (LAG)
IEEE 802.3af Power over Ethernet
IEEE 802.3at | IEEE 802.3i 10Base-T
IEEE 802.3u 100BASE-X
ANSI/TIA/EIA-568
ANSI/TIA/EIA-569
NEMA-WD6 | **QoS/CoS**
IEEE 802.1P (CoS) |

HP IntelliJack Gigabit Switch Series accessories

Switches

HP NJ2000 1Gb IntelliJack Switch 20-pack (JD058A)
HP NJ1000 1Gb IntelliJack Switch 20-pack (JD051A)

Power Supply

HP Single-port 802.3at Gigabit PoE Midspan Power Supply
(JD054A)

Mounting Kit

HP NJ1000/NJ2000 IntelliJack Desktop Stand (JD056A)

To learn more, visit www.hp.com/networking