IE220 Series

Industrial Ethernet, Layer 2+ Switches

Key Features

1 Designed for non-conditioned environment and outside plant [1]

2 Standard northbound interface for network automation NETCONF/RESTCONF and network orchestration OpenFlow

3 Two 10 Gigabit Ethernet uplink ports

4 PoE++ sourcing with advanced features:
- Continuous PoE
- Dynamic allocation of power budget
- Sturdy connectors ensure high reliability when they are disconnected while carrying electrical current [2]

5 Comprehensive low-latency wire-speed QoS for video streaming

6 Certified for plenum UL 2043

7 Dual power inputs for redundancy

8 DIN rail and wall mount

9 Air convection cooling (fanless)

10 Extended operating temperature range: -40° C to 75° C (-40° F to 167° F)

[1] Surge immunity complies with IEC 61000-4-5, installation class 3
[2] Comply with IEC 60512-99-002 endurance tests

Product Specifications

PRODUCT	10/100/1000T COPPER PORTS	1/10G SFP+ PORTS	TOTAL PORTS	POE ENABLED PORTS	SWITCHING FABRIC	FORWARDING RATE
IE220-6GHX	4	2	6	4	48Gbps	35.7Mpps
IE220-10GHX	8	2	10	8	56Gbps	41.7Mpps

Power Characteristics

PRODUCT	INPUT VOLTAGE [3]	NON POE+ LOAD			FULL POE+ LOAD			TOTAL POE POWER BUDGET (W)	POE SOURCING PORTS		
		MAX POWER CONSUMPTION (W)	MAX HEAT DISSIPATION (BTU/H)	MAX NOISE (DBA)	MAX POWER CONSUMPTION (W)	MAX HEAT DISSIPATION (BTU/H)	MAX NOISE (DBA)		POE+ (30W)	POE++ (60W)	POE+++ (90W)
IE220-6GHX	37~57V DC	17.4	59.5	Fanless	204	80.3	Fanless	180	4	2	2
IE220-10GHX	37~57V DC	18.5	63.3	Fanless	266	87.7	Fanless	240	8	4	2

[3] PoE sourcing equipment requires:
  48V DC to enable IEEE 802.3at Type 1 (PoE)
  54V DC to enable IEEE 802.3at Type 2 (PoE+), IEEE 802.3bt Type 3 (PoE++) and IEEE 802.3bt Type 4 (PoE++)

Physical Specifications

PRODUCT	WIDTH / DEPTH / HEIGHT	WEIGHT	ENCLOSURE	PROTECTION RATE
IE220-6GHX	65 x 137 x 155 mm (2.56 x 5.39 x 6.12 in)	Din rail: 1.57 kg (3.46 lb) Wall mount: 1.45 kg (3.20 lb)	Aluminium, Sheet Metal Shell	IP30
IE220-10GHX	65 x 137 x 155 mm (2.56 x 5.39 x 6.12 in)	Din rail: 1.60 kg (3.53 lb) Wall mount: 1.49 kg (3.28 lb)	Aluminium, Sheet Metal Shell	IP30

Latency (microseconds)

PRODUCT	PORT SPEED		
	100MBPS	1GBPS	10GBPS
IE220-6GHX	12.02µs	2.81µs	2.31µs
IE220-10GHX	11.9µs	2.78µs	2.33µs

Ordering Information

HV-IE220-6GHX-K90	4x 10/100/1000T, 2x 1G/10G SFP+, Industrial Ethernet, Layer 2+ Switch, PoE++ Support
HV-IE220-10GHX-K90	8x 10/100/1000T, 2x 1G/10G SFP+, Industrial Ethernet, Layer 2+ Switch, PoE++ Support
HV-IE048-120-20	120W @48V DC, Industrial AC/DC Power Supply, DIN rail mount
HV-IE048-240-20	240W @48V DC, Industrial AC/DC Power Supply, DIN rail mount
HV-IE048-480-20	480W @48V DC, Industrial AC/DC Power Supply, DIN rail mount

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