



LevelOne Hilbert IGS-2100 Industrial Series

Product Overview

Hilbert IGS-2100 series offers a user-friendly web-based interface for efficient network management. With integrated LevelOne IP Locator, IP management becomes more convenient. It supports various connectivity options, including 1000Mbps full-duplex, 10/100Mbps full/half-duplex, and auto-negotiation with auto-MDI/MDIX, ensuring seamless compatibility with diverse network setups. Network segmentation for improved performance and security is enabled through 802.1Q tag-based VLAN support. Prioritization is simplified with IEEE 802.1p QoS featuring four priority queues. Robust protection measures such as 4KV surge protection and 6KV contact/8KV air ESD protection ensure system resilience against electrical hazards. IP 30 protection mitigates dust impact, and the wide operating temperature range (-40 to 75°C) ensures reliability in harsh environments.

Key Features

- Web-based and smart lite Management
- Supports LevelOne IP Locator for easier IP management.
- 1000Mbps full-duplex, 10/100Mbps full/half-duplex, auto-negotiation, auto-MDI/MDIX
- IP Multicast Filtering through IGMP Snooping V1 / V2
- 802.1Q tag-based VLAN allows network segmentation to enhance performance and security
- IEEE 802.1p QoS with 4 priority queues
- Minimize carbon footprint with advanced energy efficient technology (IEEE 802.3az)
- 4KV surge protection, 6KV contact / 8KV air ESD protection
- IP 30 protection can reduce the impact of dust
- -40 to 75°C wide operating temperature range

Software Features

L2 Switching Features	IGMP Snooping
	Link Aggregation
	• Supports static link aggregation
	Port Mirroring
VLAN	Support STP/RSTP Spanning Tree Protocol
	Supports up to 32 VLANs (out of 4K VLAN IDs)
	Port/802.1Q VLAN
Quality of Service (QoS)	Support Port-based/802.1p/DSCP priority
	Support 4 priority queues
	Rate Limit
	Storm Control
Management	Web-based Graphic User Interface (GUI)
	Supports LevelOne IP Locator for easier IP management.

Specifications

Product Model		IGS-2105	IGS-2106	IGS-2108	IGS-2110	IGS-2128
Port	RJ-45 10/100/1000 Ports	5	6	8	10	28
	SFP or SFP+ Uplink Ports	X	2 (1G)	X	2 (1G)	4 (1G/Combo)
	PoE Ports	X	X	X	X	X
Performance	Switching Capacity	10 Gbps	12 Gbps	16 Gbps	20 Gbps	56 Gbps
	Flash Memory Size	2MB	2 MB	2 MB	2 MB	2 MB
	Packet Buffer	1.5 Mbits	1.5 Mbits	1.5 Mbits	1.5 Mbits	4.1 Mbits
	Packet Forwarding Rate	7.44 Mpps	8.928 Mpps	11.904 Mpps	14.88 Mpps	41.664 Mpps
	MAC Address Table	2 K	2 K	4 K	4 K	8 K
	Jumbo Frames	9 K	9 K	9 K	9 K	9 K
	MTBF	43,800 hrs	43,800 hrs	43,800 hrs	43,800 hrs	43,800 hrs
	Heat Dissipation	17.06 (Btu/H)	20.47 (Btu/H)	20.47 (Btu/H)	30.71 (Btu/H)	68.24 (Btu/H)
Power Supply	Acoustic Noise	0 dB (A)	0 dB (A)	0 dB (A)	0 dB (A)	0 dB (A)
	Power Input	12-57VDC (Redundancy)	12-57VDC (Redundancy)	12-57VDC (Redundancy)	12-57VDC (Redundancy)	12-57VDC (Redundancy)
	Max System Power Consumption (Watts)	5 W	6 W	6 W	9 W	20 W
PoE	IEEE 802.3af/802.3at	X	X	X	X	X
	PoE Power Budget	X	X	X	X	X
	Pin assignment and polarity	X	X	X	X	X
Mechanical	IP Rating	30	30	30	30	30
	Rack Space	X	X	X	X	19"
	Form Factor	DIN-rail/wall mount	DIN-rail/wall mount	DIN-rail/wall mount	DIN-rail/wall mount	Desktop/Rack mount
	Dimension (W x D x H)	136 x 108 x 38.5 mm	136 x 108 x 38.5 mm	143 x 114 x 38 mm	149.2 x 122 x 50 mm	440 x 242 x 45 mm
	Weight	0.35 kg	0.45 kg	0.48 kg	0.53 kg	2.44kg
Environmental	Operating Temperature	-40~75°C	-40~75°C	-40~75°C	-40~75°C	-40~75°C
	Operating Humidity	10% to 90%	10% to 90%	10% to 90%	10% to 90%	10% to 90%
	Storage Humidity	5% to 95%	5% to 95%	5% to 95%	5% to 95%	5% to 95%
	Storage Temperature	-40~85°C	-40~85°C	-40~85°C	-40~85°C	-40~85°C
	Approval and Compliance	CE, UKCA, FCC Part 15, Subpart B Class B, RoHS	CE, UKCA, FCC Part 15, Subpart B Class B, RoHS	CE, UKCA, FCC Part 15, Subpart B Class B, RoHS	CE, UKCA, FCC Part 15, Subpart B Class B, RoHS	CE, UKCA, FCC Part 15, Subpart B Class B, RoHS
LevelOne IP Locator Management		Supported	Supported	Supported	Supported	Supported

Specifications

Product Model		IGS-2105P	IGS-2106P	IGS-2108P	IGS-2110P
Port	RJ-45 10/100/1000 Ports	5	6	8	10
	SFP or SFP+ Uplink Ports	X	2 (1G)	X	2 (1G)
	PoE Ports	4	4	8	8
Performance	Switching Capacity	10 Gbps	12 Gbps	16 Gbps	20 Gbps
	Flash Memory Size	2 MB	2 MB	2 MB	2 MB
	Packet Buffer	1.5 Mbits	1.5 Mbits	1.5 Mbits	1.5 Mbits
	Packet Forwarding Rate	7.44 Mpps	8.928 Mpps	11.904 Mpps	14.88 Mpps
	MAC Address Table	2 K	2 K	4 K	4 K
	Jumbo Frames	9 K	9 K	9 K	9 K
	MTBF	43,800 hrs	43,800 hrs	43,800 hrs	43,800 hrs
	Heat Dissipation	23.88 (Btu/H)	27.3 (Btu/H)	40.94 (Btu/H)	81.89 (Btu/H)
	Acoustic Noise	0 dB (A)	0 dB (A)	0 dB (A)	0 dB (A)
Power Supply	Power Input	44-57VDC (Redundancy)	44-57VDC (Redundancy)	44-57VDC (Redundancy)	44-57VDC (Redundancy)
	Max System Power Consumption (Watts)	5 W	5 W	8 W	10 W
PoE	IEEE 802.3af/802.3at	O	O	O	O
	Max. PoE Power Budget	60 W	60 W	112 W	110 W
	Pin assignment and polarity	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)
Mechanical	IP Rating	30	30	30	30
	Rack Spece	X	X	X	X
	Form Factor	DIN-rail/wall mount	DIN-rail/wall mount	DIN-rail/wall mount	DIN-rail/wall mount
	Dimension (W x D x H)	136 x 108 x 38.5 mm	136 x 108 x 38.5 mm	153 x 114 x 38 mm	149.2 x 122 x 50 mm
	Weight	0.38 kg	0.46 kg	0.49 kg	0.54 kg
Environmental	Operating Temperature	-40~75°C	-40~75°C	-40~75°C	-40~75°C
	Operating Humidity	10% to 90%	10% to 90%	10% to 90%	10% to 90%
	Storage Humidity	5% to 95%	5% to 95%	5% to 95%	5% to 95%
	Storage Temperature	-40~85°C	-40~85°C	-40~85°C	-40~85°C
	Approval and Compliance	CE, UKCA, FCC Part 15, Subpart B Class B, RoHS	CE, UKCA, FCC Part 15, Subpart B Class B, RoHS	CE, UKCA, FCC Part 15, Subpart B Class B, RoHS	CE, UKCA, FCC Part 15, Subpart B Class B, RoHS
LevelOne IP Locator Management		Supported	Supported	Supported	Supported