

IDS-205G – Managed Industrial Ethernet Switch with Gigabit Fiber

 perle.com/products/switches/ids-205g-industrial-managed-gigabit-switch.shtml

4 x 10/100/1000Base-T RJ45 and 1 x 1000Base-X SC/ST



- 4 port 10/100/1000Base-T (RJ45) for Gigabit and Fast Ethernet devices
- 1 port 1000Base-X SC/ST fiber connection
- IP Manageability, VLAN and resiliency management
- Compact, corrosion resistant case attaches to a standard DIN Rail
- Redundant dual power input 12/24/48 VDC
- Out-of-band management via RJ45
- Programmable Controller safety and Hazardous Location Certification
- -40 to 75C industrial operating temperature (XT Models)

The **IDS-205G** is a **5 port Managed Ethernet Switch** that can operate in **industrial environments** providing advanced performance and enabling **real-time deterministic network operation**. Four 10/100/1000-Base-T Ethernet ports are available for networking Gigabit and Fast Ethernet devices. One 1000Base-X fiber connection is available to **extend Gigabit Ethernet operating distances over fiber**.

In industrial plants, where high levels of electromagnetic interference (EMI) is a common phenomenon, **utilizing fiber is critical**. EMI can cause data corruption over copper-based Ethernet links. However, data transmitted over fiber optic cable is completely immune to this type of noise ensuring optimal data transmission across the plant floor.

Perle **Industrial-grade Ethernet Switches** are designed to stand up to **extreme temperatures, surges, vibrations, and shocks** found in **industrial automation, government, military, oil and gas, mining and outdoor applications**.

With over 30 models, the Perle IDS-205G offers a choice of connectors, fiber types, temperature support and operating distances.

The simple **Plug and Play** installation available in Perle's **Fast Setup feature** gets your Ethernet devices networked immediately. **CCNA** (Cisco Certified Network Associate) and **CCNP** (Cisco Certified Network Professional) trained engineers will appreciate the familiar **Command Line Interface (CLI)** via in-band Telnet or the out-band serial console port.

An IPv6 address can be used to manage the **IDS-205G** which also supports a comprehensive set of management functions, such as **P-Ring, management VLAN, QoS, RMON, N:1 port mirroring and local alert log**.

These **rugged fan-less switches** that are hardened to provide superior reliability in **-10 to 60°C**. In addition, **every component** on every **industrial (XT) model** has been **designed and tested** to handle operating temperatures between **-40 and 75C**.

All Perle Industrial Ethernet Switches only use **high-end components** from the **leading chip manufacturers** to ensure the highest level of **durability and reliability**. In addition, all units have a corrosion resistance aluminum case and dual redundant power input with reverse polarity and overload protection.

For **over 35 years** Perle has been **designing industrial hardware**. This expertise was used to design the **toughest Ethernet switches on the market** that will keep your system running for years to come.

IDS-205G Industrial Managed DIN Rail Switch Features

Simple deployment Zero-touch discovery using Dynamic Host Control Protocol (DHCP), Perle's "Fast Setup" for first time installation, provides simple deployment in Ethernet environments.

Resiliency

- STP and RSTP protocols for fast recovery.
- Perle's [P-Ring protocol](#) for fast convergence in ring topologies

Manageability

- Web Device Manager, Telnet, SNMP and Perle's [PerleView NMS](#) for centralized management
- In-band management via RJ45 port
- Use an IPv4 or IPv6 address

Rugged design for harsh environments

- Corrosion resistant case
- Programmable Controller Safety certified
- Certified for hazardous locations
- Extended industrial temperature models

Reliable operation

- Fan-less, no moving parts
- Dual power input. Connect to separate power sources for redundancy.
 - Reverse polarity protection • Handles vibration and shock conditions found in industrial environments
 - Overload current protection

Real-time Ethernet performance

- Fast wire-speed , store and forward switching
- Auto-sensing for speed and duplex
- Auto-mdi/mdix-crossover works with straight and crossover cables

Energy Efficient Ethernet (EEE)

Energy Efficient Ethernet (EEE) as per 802.3az provides power savings during idle network activity.

Performance Features

Port Auto-sensing

Auto-sensing of port speed and auto-negotiation of duplex on all switch ports for optimizing bandwidth

Auto MDI/MDIX

Medium-dependent interface crossover (Auto-MDIX) capability on 10/100 and 10/100/1000 mbps interfaces that enables the interface to automatically detect the required cable type (straight thru or crossover) and to configure the connection appropriately

802.3x flow control

IEEE 802.3x flow control on all ports. (The switch does not initiate pause frames)

Storm Control

Storm control prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on one of the physical interfaces. A LAN storm occurs when packets flood the LAN, creating excessive traffic and degrading network performance. Storm Control enables limits to be placed on broadcast, multicast and unicast traffic

Static MAC Addressing

This feature enables the manual configuration of the MAC addresses on a per port basis. Flooding is prevented by retaining MAC entries across a reboot of the switch.

Port Blocking

Port Blocking provides the ability to block the flooding of unknown layer 2 unicast and multicast traffic on an Interface

IPV4 IGMP Snooping

Internet Group Management Protocol (IGMP) constrains the flooding of multicast traffic by dynamically configuring Layer 2 interfaces so that multicast traffic is forwarded to only those interfaces associated with IP multicast devices.

IGMPv1, v2, v3, IGMP snooping querier mode, IGMP report suppression, topology change notification and robustness variable features are supported

Port Quick Disconnect

In some network environments, it is desirable to move an Ethernet from one switch port to another and have the device come on-line quickly. The Port Quick Disconnect feature if enabled, provides an immediate age-out of the MAC addresses learned on the port when the port status changes from a link-up to a link-down state

Manageability Features

Web Device Manager

The Perle Web Device Manager is an embedded Web based application that provides an easy to use browser interface for managing the switch. Unlike competitive products, Java applet technology is not required or used

Command Line Interface (CLI)

A familiar text-based Command Line Interface that is based on accepted industry standard syntax and structure. Ideal for CCNA and CCNP trained engineers, this interface is available via in-band Telnet or the out-band serial console port

SNMP

Manage the switch with an snmp compatible management station that is running platforms such as HP Openview or Perle's PerleVIEW NMS. SNMP V1 and V2C

PerleVIEW

PerleVIEW is Perle's SNMP-based network management system that provides a view of the network with a large scale of Perle networking devices.

IPv6

Manage with an IPv4 or IPV6 address

DHCP Client Auto-Configuration

Automates configuration of switch information such as IP address, default gateway, hostname and Domain Name System (DNS) as well as TFTP server names. Firmware and configuration file locations are provided through options 54, 66, 67, 125 and 150

DHCP Relay

DHCP Relay is used for forwarding requests from DHCP clients when they are not on the same physical subnet. As a DHCP relay agent the switch operates as a Layer 3 device that forwards DHCP packets between clients and servers.

DHCP Option 82 Insertion

Normally used in metro or large enterprise deployments DHCP Option 82 insertion is used to provide additional information on "physical attachment" of the client. As per RFC 3046, option 82 enables additional pre-defined information to be inserted into the DHCP request packet (for DHCP Servers that support this option)

LLDP

LLDP-Link Layer Discovery Protocol as per IEEE 802.1AB is a neighbor discovery protocol that is used for network devices to advertise information about themselves to other devices on the network. This protocol runs over the data-link layer, which allows two systems running different network layer protocols to learn about each other (via TLVs – Type-Length-Value)

File Download

Firmware can be transferred via TFTP or HTTP. Text-based files that can be created or edited by common text editors.

Availability and Redundancy Features

Spanning Tree Protocol (STP)

IEEE 802.1D now incorporated in IEEE 802.1Q-2014, STP prevents bridge loops and the broadcast radiation that results from them.

Other Spanning Tree features include BPDU guard, Root guard, loop guard, root guard and TCN Guard

Rapid

Interoperable with STP, RSTP (IEEE 802.1w) takes advantage of point-to-point wiring and provides rapid

**Spanning
Tree Protocol
(RSTP)**

convergence of the spanning tree. Reconfiguration of the spanning tree can occur in less than 1 second

P-Ring

Perle's Ring Protocol provides resilient operation of a network made up of managed switches in a ring topology. The implementation prevents a switch loop scenario and also enables communication within the ring if a failure occurs somewhere in the ring.

P-Ring also has an auto-configuration feature that automatically determines the master control switch in the ring reducing installation time.

Recovery time of 10 ms or better in rings composed of up to 14 switches

VLAN Features**VLAN Range**

Up to 255 VLANS across a VLAN ID range of 1 to 4094

**VLAN
Interfaces**

Perle switches provide the ability to configure management VLAN interfaces. This enables network administrators to access the switch's management interface from separate VLAN networks

Quality of Service (QoS) and Class of Service (CoS) Features**Classification**

IP ToS/DSCP and IEEE 802.1p CoS

**Congestion
Avoidance**

Weighted Fair Queuing or Strict Queuing

**Egress
Queues and
scheduling**

- 4 traffic class queues per port
- output queue mapping
- DSCP to output queue mapping

Monitoring Features**Port Mirroring**

N:1 Port Mirroring is a method of monitoring network traffic. With port mirroring enabled, the switch sends a copy of one or more ports to a predefined destination port. Selection of Transmit, Receive frames or both can be made

RMON

RMON statistics provided for statistics, history, alarms and events for network monitoring and traffic analysis

Syslog

Facility for logging systems messages to an external SYSLOG server

Alert Log

Facility for logging systems messages locally

Traceroute

Layer 2 traceroute to identify the path that a frame takes from source to destination

Virtual cable test

A test that enables the detection of potential copper cabling issues such as pair polarity pair swaps and excessive pair skew as well as any opens, shorts or any impedance mismatch. Will report the distance in the cable to the open or short.

Power Supply Monitoring

Provides the status of power supplies of the switch

Alarm Processing

The switch can monitor global switch conditions as well as individual ports. These alarms can be configured to send messages to ;

- an internal log file
- external Syslog server
- SNMP trap server
- An external alarm device such as a bell, light or other signaling device via the switch's built-in dry contact alarm relay

Global Status Monitoring Alarms

- Dual power supply alarm

Port Status Monitoring Alarms

- Link Fault Alarm (IE loss of signal)
- Port not forwarding alarm
- Port not operating alarm (failure upon start up tests)
- FCS Bit error rate alarm

Alarm Relay

When enabled, energizes the built-alarm relay triggering an external alarm circuit such as a bell, light or other signaling device according to alarm conditions set

Management and Standards**IEEE Standards**

IEEE 802.3 for 10Base-T
 IEEE 802.3u for 100Base-T(X) and 100Base-X
 IEEE 802.3ab for 1000Base-T
 IEEE 802.3z for 1000BaseX

IEEE 802.3x for Flow Control
 IEEE 802.1D-2004 for Spanning Tree Protocol
 IEEE 802.1w for Rapid STP
 IEEE 802.1Q for VLAN Tagging
 IEEE 802.1p for Class of Service
 IEEE 802.3ad for Port Trunk with LACP
 IEEE 802.1AB LLDP

SNMP MIB Objects

RFC 1213-MIB II
 RFC 1493-BRIDGE-MIB
 RFC 1907-SNMPv2-MIB
 RFC 2012-TCP-MIB
 RFC 2013-UDP-MIB
 RFC 2578-SNMPv2-SMI
 RFC 2579-SNMPv2-TC
 RFC 2819-RMON-MIB
 RFC 4502-RMON2-MIB
 RFC 2613-SMON-MIB
 RFC 2863-IF-MIB
 RFC 4363-Q-Bridge-MIB and P-Bridge MIB
 RFC 4318-RSTP-MIB
 IP-MIB
 LLDP-MIB

Hardware Features & Technical Specifications: IDS-205G Industrial Managed DIN Rail Switch

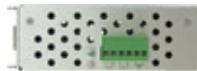
Power

Dual Power Input Both inputs draw power simultaneously. If one power source fails, the other live source can, acting as a backup, supply enough power to meet the operational needs of the switch.

12/24/48 VDC Nominal. (9.6 to 60 VDC)

Power Connector 4-Pin Removable Terminal Block.

Grounding screw on metal chassis



Overload Current Protection Fused overload current protection

Reverse polarity protection The positive and negative inputs can be reversed providing safe and simple power connectivity.

Access Ports

RJ45 4 shielded RJ45 ports for 10/100/1000Base-T up to 100 meters (328 ft.)

Auto-negotiation

Auto-MDI/MDIX-crossover for use with either crossover over straight-through cable types

Ethernet isolation 1500 V

RJ45 Serial Console port RJ45 DTE
Optional rolled and straight thru RJ45 cables and DB adapters are available

Gigabit Fiber port 1000Base-x fiber port models

Duplex SC or ST connector

- Multimode 50/125 or 62.5/125 micron fiber cable
- Single mode 9/125 micron fiber cable

Simplex (BIDI, single strand) SC connector

- Multimode 50/125 or 62.5/125 micron fiber cable
- Single mode 9/125 micron fiber cable

PC and UPC type patch cords supported.

Fiber Port Specs

Fiber Type	Transmit (dBm)		Receive (dBm)		Power Budget (dB)	Wavelength (nm)	IEEE	Core Size (um)	Modal Bandwidth (MHz* Km)	Maximum Operating Distance
	Min	Max	Min	Max						
MMF (Duplex SC/ST)	-9.5	-4.0	-17.0	-3.0	7.5	850	1000Base-SX	62.5	160	220 m (722 ft.)
								62.5	200	275 m (902 ft.)

								50	400	500 m (1,640 ft.)
								50	500	550 m (1,804 ft.)
								50	2000	1000 m (3281 ft.)
MMF (Duplex SC/ST)	-6.0	0.0	-17.0	0.0	11.0	1310	1000Base- LX	62.5	160	2 km (1.2 mi)
								50	500	1 km (3280ft)
MMF (simplex SC)	-10.0	-4.0	-17.0	-3.0	7.0	1310 / 1550 1550 / 1310	1000Base- BX-U 1000Base- BX-D	62.5 50	500	500 m (1,640 ft)
SMF (Duplex SC/ST)	-9.5	-3.0	-20.0	-3.0	10.5	1310	1000Base- LX/LH	9	**	10 km (6.2 mi)
SMF (Simplex SC)	-9.0	-3.0	-20.0	-3.0	11.0	1310 / 1490 1490 / 1310	1000Base- BX-U 1000Base- BX-D	9	**	10 km (6.2 mi)
SMF (Simplex SC)	-8.0	-3.0	-22.0	-3.0	14.0	1310 / 1490 1490 / 1310	1000Base- BX-U 1000Base- BX-D	9	**	20 km (12.4 mi)
SMF (Duplex SC/ST)	-2.0	2.0	-23.0	-3.0	21.0	1310	1000Base- EX	9	**	40 km (24.9 mi)
SMF (Simplex	-3.0	2.0	-23.0	-3.0	20.0	1310 / 1490 1490 / 1310	1000Base- BX-U 1000Base-	9	**	40 km (24.9 mi)

SC)

BX-D

SMF (Duplex SC/ST)	-2.0	5.0	-23.0	-3.0	21.0	1550	1000Base- ZX	9	**	70 km (43 mi)
SMF (Simplex SC)	-2.0	3.0	-26.0	-3.0	24.0	1510 / 1590 1590 / 1510	1000Base- BX-U 1000Base- BX-D	9	**	80 km (50 mi)
SMF (Duplex SC/ST)	0.0	5.0	-32.0	-9.0	32.0	1550	1000Base- ZX	9	**	120 km (74.6 mi)
SMF (Simplex SC)	-3.0	2.0	-34.0	-9.0	31.0	1510 / 1590 1590 / 1510	1000Base- BX-U 1000Base- BX-D	9	**	120 km (74.6 mi)
SMF (Duplex SC/ST)	2.0	5.0	-34.0	-9.0	36.0	1550	1000Base- ZX	9	**	160 km (100 mi)

* 1db/km multimode fiber cable

** as per ITU-T G.652 SMF specifications

Alarms

Alarm Relay

- NC (Normally Closed) dry contact.
- 1A @ 24V

Switch Properties

Standards

IEEE 802.3 for 10Base-T

IEEE 802.3u for 100Base-T(X)

IEEE 802.3ab for 1000Base-T

IEEE 802.3z for 1000BaseX

Energy Efficient Ethernet (EEE) as per 802.3az.

IEEE 802.3x for Flow Control

Processing Type	Store and Forward
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MAC Address Table Size	8K
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VLAN ID range	1 to 4094
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IGMP groups	1024
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Packet Buffer Memory	1 Mbit
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Jumbo Frame Size	10 KB
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Indicators

Power	This LED is turned on when the appropriate level of voltage is applied to one or both of the power inputs
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System	Indicates whether the switch O/S is operating normally
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RJ45 Ethernet	These integrated colored LEDs indicate link, activity and speed for each port.
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Fiber Link	Fiber link LED indicates Link and Data Activity
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Alarm	The alarm LED (Red) will be turned on under alarm conditions
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P-Ring Master LED	Status of the P-Ring Master
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Backup Network Coupling Indicates whether or not the “Backup Network Coupling” feature is enabled (Redundant links connecting two P-Ring networks)

Environmental Specifications

Operating Temperature Ranges Standard temperature models (Std): -10° C to 60° C (14° F to 140° F).
XT Industrial extended temperature models (Ind): -40° C to 75° C (-40 F to 167° F)

Storage Temperature Range Minimum range of -25° C to 75° C (-13° F to 167° F). -40 C to 85 C (-40 F to 185 F) for industrial extended temperature models

Operating Humidity Range 5% to 90% non-condensing

Storage Humidity Range 5% to 95% non-condensing

Operating Altitude Up to 3,048 meters (10,000 feet)

Chassis Metal with an IP20 ingress protection rating

Din Rail Mountable DIN Rail attachment included. Mounts to standard 35 mm DIN rail in accordance with DIN EN 60175.
Removable to accommodate optional Panel/Wall mount kit

Product Weight and Dimensions

Weight 0.61kg (1.34 lbs)

Dimensions 45 x 130 x 121mm

Packaging

Shipping Weight 0.76kg (1.76 lbs)

Shipping
Dimensions 170 x 260 x 70 mm

Standards and Certifications

Laser Safety EN 60825-1:2007

Fiber optic transmitters on this device meet Class 1 Laser safety requirements per IEC-60825 FDA/CDRH standards and comply with 21CFR1040.10 and 21CFR1040.11.

Safety UL 60950-1

IEC 60950-1:2005+A1:2009 and

EN 60950-1:2006+A11:2009+A1:2010+A12:2011

CE Mark

UL 61010-1 and UL 61010-2-201 (Standard for Safety for Programmable Controllers)

Emissions FCC 47 Part 15 Class A

CISPR 22:2008/EN55022:2010 (Class A)

CISPR 24:2010/EN 55024:2010

EMC and
Immunity

CISPR 24:2010/EN 55024:2010

IEC/EN 61000-4-2 (ESD) :

IEC/EN 61000-4-3 (RS)

IEC/EN 61000-4-4 (EFT) :

IEC/EN 61000-4-5 (Surge)

IEC/EN 61000-4-6 (CS)

IEC/EN 61000-4-8

IEC/EN 61000-6-2 (General Immunity in Industrial Environments)

Industrial Safety

UL 61010-1 and UL 61010-2-201 (Standard for Safety for Programmable Controllers). Formerly known as UL508 (Safety standard for Industrial Control Equipment)

Hazardous
Locations (Hazloc)

ANSI/ISA 12.12.01, Class 1 Division 2 Groups A-D (formerly known as UL 1604) *

ATEX Class 1 Zone 2 *

Environmental [Reach, RoHS and WEEE Compliant](#)

Other ECCN: 5A991

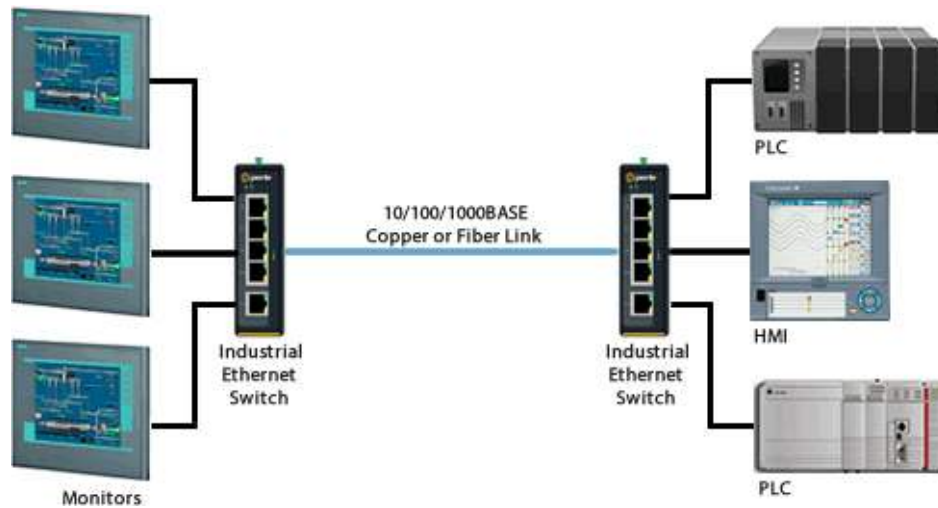
HTSUS Number: 8517.62.0050

5 year Warranty

Contents Shipped Industrial Ethernet Switch with DIN Rail attachment
Terminal block
Installation guide

* pending

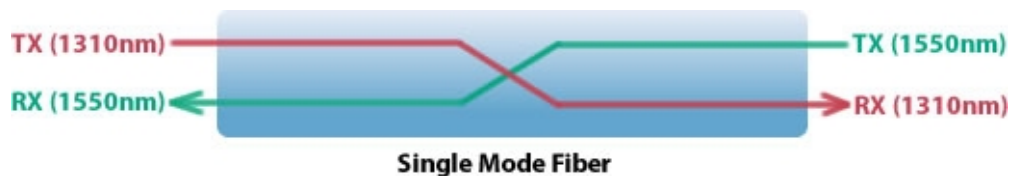
IDS-205G Industrial Switch Diagram



Single Mode / Single Strand (WDM) Fiber

Connecting devices over a single fiber strand (also referred to as “Bi-Directional” BiDi or Simplex)

To reduce costs, or where there are limits on available fiber, Wavelength-Division Multiplexing (WDM) technology may be utilized. WDM uses separate transmit and receive frequencies to communicate on a single fiber strand. WDM technology relies on the fact that optical fibers can carry many wavelengths of light simultaneously without interaction between each wavelength. Thus, a single fiber can carry many separate wavelength signals or channels simultaneously. WDM systems are divided into different wavelength patterns, conventional/coarse (CWDM) and dense (DWDM).



When Single Strand fiber is used, you will need an “Up” side and a “Down” side when interconnecting fiber devices.

Perle offers a wide variety of Single Fiber (“Up/Down”) [Ethernet Switches](#) and [Media Converters](#) for use with single strand of fiber.

Select a Model to obtain a Part Number – IDS-205G

Std = Standard Temperature models: -10° C to 60° C (14° F to 140° F).

Ind = Industrial Extended Temperature Models: -40° C to 75° C (-40 F to 167° F)

Duplex Fiber

Model	Temp	RJ45 GE	Fiber Connector	Transmit (dBm)		Receive (dBm)		Power Budget (dB)	Wavelength (nm)	Fiber Type	Operating Distance
				Min	Max	Min	Max				
IDS-205G-CMD05	Std	4	1 x Duplex SC	-9.5	-4.0	-17.0	-3.0	7.5	850	MMF	550 m (1,804 ft.)
IDS-205G-CMD05-XT	Ind	4	1 x Duplex SC	-9.5	-4.0	-17.0	-3.0	7.5	850	MMF	550 m (1,804 ft.)
IDS-205G-TMD05	Std	4	1 x Duplex ST	-9.5	-4.0	-17.0	-3.0	7.5	850	MMF	550 m (1,804 ft.)
IDS-205G-TMD05-XT	Ind	4	1 x Duplex ST	-9.5	-4.0	-17.0	-3.0	7.5	850	MMF	550 m (1,804 ft.)
IDS-205G-CMD2	Std	4	1 x Duplex SC	-6.0	0.0	-17.0	0.0	11.0	1310	MMF	2 km (1.2 mi)
IDS-205G-TMD2	Std	4	1 x Duplex ST	-6.0	0.0	-17.0	0.0	11.0	1310	MMF	2 km (1.2 mi)

IDS-205G-CSD10	Std	4	1 x Duplex SC	-9.5	-3.0	-20.0	-3.0	10.5	1310	SMF	10 km (6.2 mi)
IDS-205G-CSD10-XT	Ind	4	1 x Duplex SC	-9.5	-3.0	-20.0	-3.0	10.5	1310	SMF	10 km (6.2 mi)
IDS-205G-TSD10	Std	4	1 x Duplex ST	-9.5	-3.0	-20.0	-3.0	10.5	1310	SMF	10 km (6.2 mi)
IDS-205G-TSD10-XT	Ind	4	1 x Duplex ST	-9.5	-3.0	-20.0	-3.0	10.5	1310	SMF	10 km (6.2 mi)
IDS-205G-CSD40	Std	4	1 x Duplex SC	-2.0	2.0	-23.0	-3.0	21.0	1310	SMF	40 km (24.9 mi)
IDS-205G-TSD40	Std	4	1 x Duplex ST	-2.0	2.0	-23.0	-3.0	21.0	1310	SMF	40 km (24.9 mi)
IDS-205G-CSD70	Std	4	1 x Duplex SC	-2.0	5.0	-23.0	-3.0	21.0	1550	SMF	70 km (43 mi)
IDS-205G-TSD70	Std	4	1 x Duplex ST	-2.0	5.0	-23.0	-3.0	21.0	1550	SMF	70 km (43 mi)
IDS-205G-CSD120	Std	4	1 x Duplex SC	0.0	5.0	-32.0	-9.0	32.0	1550	SMF	120 km (74.6 mi)
IDS-205G-TSD120	Std	4	1 x Duplex ST	0.0	5.0	-32.0	-9.0	32.0	1550	SMF	120 km (74.6 mi)
IDS-205G-CSD160	Std	4	1 x Duplex SC	2.0	5.0	-34.0	-9.0	36.0	1550	SMF	160 km (100 mi)
IDS-205G-TSD160	Std	4	1 x Duplex ST	2.0	5.0	-34.0	-9.0	36.0	1550	SMF	160 km (100 mi)

* 1db/km multimode 50/125 micron fiber cable

Single Fiber (Simplex / BiDi) Models (Recommended use in pairs)**Simplex (BiDi) Fiber**

Model	Temp	RJ45 GE	Fiber Connector	Transmit (dBm)		Receive (dBm)		Power Budget (dB)	Wavelength (nm) TX / RX	Fiber Type	Operating Distance
				Min	Max	Min	Max				
IDS-205G-CMS05U	Std	4	1 x Simplex SC	-10.0	-4.0	-17.0	-3.0	7.0	1310 / 1550	MMF	500 m (1,640 ft)
IDS-205G-CMS05D	Std	4	1 x Simplex SC	-10.0	-4.0	-17.0	-3.0	7.0	1550 / 1310	MMF	500 m (1,640 ft)
IDS-205G-CSS10U	Std	4	1 x Simplex SC	-9.0	-3.0	-20.0	-3.0	11.0	1310 / 1490	SMF	10 km (6.2 mi)
IDS-205G-CSS10D	Std	4	1 x Simplex SC	-9.0	-3.0	-20.0	-3.0	11.0	1490 / 1310	SMF	10 km (6.2 mi)
IDS-205G-CSS10U-XT	Ind	4	1 x Simplex SC	-9.0	-3.0	-20.0	-3.0	11.0	1310 / 1490	SMF	10 km (6.2 mi)
IDS-205G-CSS10D-XT	Ind	4	1 x Simplex SC	-9.0	-3.0	-20.0	-3.0	11.0	1490 / 1310	SMF	10 km (6.2 mi)
IDS-205G-CSS20U	Std	4	1 x Simplex SC	-8.0	-3.0	-22.0	-3.0	14.0	1310 / 1490	SMF	20 km (12.4 mi)

IDS-205G-CSS20D	Std	4	1 x Simplex SC	-8.0	-3.0	-22.0	-3.0	14.0	1490 / 1310	SMF	20 km (12.4 mi)
IDS-205G-CSS40U	Std	4	1 x Simplex SC	-3.0	2.0	-23.0	-3.0	20.0	1310 / 1490	SMF	40 km (24.9 mi)
IDS-205G-CSS40D	Std	4	1 x Simplex SC	-3.0	2.0	-23.0	-3.0	20.0	1490 / 1310	SMF	40 km (24.9 mi)
IDS-205G-CSS80U	Std	4	1 x Simplex SC	-2.0	3.0	-26.0	-3.0	24.0	1510 / 1590	SMF	80 km (50 mi)
IDS-205G-CSS80D	Std	4	1 x Simplex SC	-2.0	3.0	-26.0	-3.0	24.0	1590 / 1510	SMF	80 km (50 mi)
IDS-205G-CSS120U	Std	4	1 x Simplex SC	-3.0	2.0	-34.0	-9.0	31.0	1510 / 1590	SMF	120 km (74.6 mi)
IDS-205G-CSS120D	Std	4	1 x Simplex SC	-3.0	2.0	-34.0	-9.0	31.0	1590 / 1510	SMF	120 km (74.6 mi)

Industrial Ethernet Switch Accessories

Panel Mount kit PM3

Brackets for attaching 30 to 75 mm wide Perle IDS industrial switches inside a control panel or to a wall for wall.

Rack Mount Kit RM4U

Bracket for mounting Perle DIN Rail switches in a standard 19" rack. Occupies "4U" of vertical rack space. 275 mm (10 inches) deep

[DIN Rail 24V
Power Supply](#)

IDPS-24-40-XT - DIN-Rail 24 VDC, 40Watt power supply with universal 85 to 264 VAC or 120-370 VDC input, -20 to 70°C extended operating temperature. [Power Supply Specifications.](#)

[DBA0020C](#)

RJ-45F to DB-9F crossover (DTE) adapter for Perle serial console ports with Sun/Cisco pinout. #1100300-10
