

## OPT-205P Series Gigabit Ethernet Switch

4\*10/100/1000Base-Tx(PoE) to 1000Base-Fx

RoHS Compliant



### >>Description

OPT-205P series provide 1 SFP or 1x9(SC/ST/FC) fiber port and 4 10/100/1000Base-TX PoE ports, OPT-205P series compliant with IEEE802.3af and IEEE802.3at while transmitting data over the cable. Each port support 30 watts output to PoE terminals directly to provide AC power without additional wiring.

#### Application

- VoIP transmission, Intelligent Home Systems
- Urban Intelligent Traffic Monitoring System (ITS), Safe City, Wireless City
- Highway monitoring system, Electronic road monitoring, Capture system
- Large industrial enterprise security monitoring systems, network multifunction system
- Remote multimedia teaching / Campus monitoring, Video conferencing systems
- Building intercom, Wireless communications, Video surveillance

### >>Main Features

- Complies with IEEE802.3, IEEE802.3u/ab/z standard
- IEEE 802.3at, IEEE 802.3af PoE standard compliance
- Support PD detection and PD classification
- Provides 4-port 10/100/1000M RJ45 and 1-port fiber ports
- Supports auto duplex(HDX/FDX) auto MDI/MDIX function
- Auto MDI/MDI-X support on RJ-45 port
- Supports jumbo frame size 10K bytes
- Status LED for easy monitoring of device status
- Fanless design, Natural cooling

## >> Specifications

### Interface

- 4 x Ethernet+PoE port (RJ45) 10/100/1000Base-Tx
- 1 x Optical port (1x9 or SFP) 1000Base-Fx

### Optical Port

- Available for 1310/1490/1550nm Single mode, 850nm Multi mode
- Transfer Distance: up to 120km
- Connectors: SC, FC, ST and SFP optional
- Fiber core: 9/125µm on single-mode fiber; 50/125µm and 62.5/125µm on multi-mode fiber

### Ethernet Port

- Cable: Cat 5/5e/6 UTP cable
- Available speed: force 10Mbps, force 100Mbps, force 1000Mbps and auto-detective 10/100/1000Mbps. Full-Duplex and Half-Duplex auto-negotiation
- Connectors: RJ-45 Connector; MDI/MDI-X connection auto-sensing

### Standard

- IEEE802.3 (10Base-T)
- IEEE802.3u (100Base-TX/FX)
- IEEE802.3ab (1000Base-T)
- IEEE802.3z (1000Base-SX/LX/CX/T)
- IEEE802.3af (Power over Ethernet Standard)
- IEEE802.3at (Power over Ethernet enhancements Standard)

### PoE Specification

- Power Output: PoE 48V DC
- PoE Power Supply type: End-Span
- Power Pin Assignment: 1/2(+), 3/6(-)
- PoE Power Budget: Each port provides max 30W feed power

### LED Indicators

- Power Status, Speed, FX Link/Act, TX Link/Act

### Switch Properties

- MAC Table: 2K
- Packet Buffer: 1Mbit
- Switching Delay: <5µs

### Power Requirement

- 48V DC, External AC to DC adapter

### Physical Characteristics

- Housing: Metal enclosure
- Dimensions: 144 x 95 x 32mm
- Weight: 0.31kg

### Environmental Limits

- Operating Temperature: -10°C to 70°C
- Storage Temperature: -20°C to 70°C
- Operating Humidity: 10% to 90% RH (non-condensing)
- Storage Humidity: 5% to 90% RH (non-condensing)

### Agency Approvals

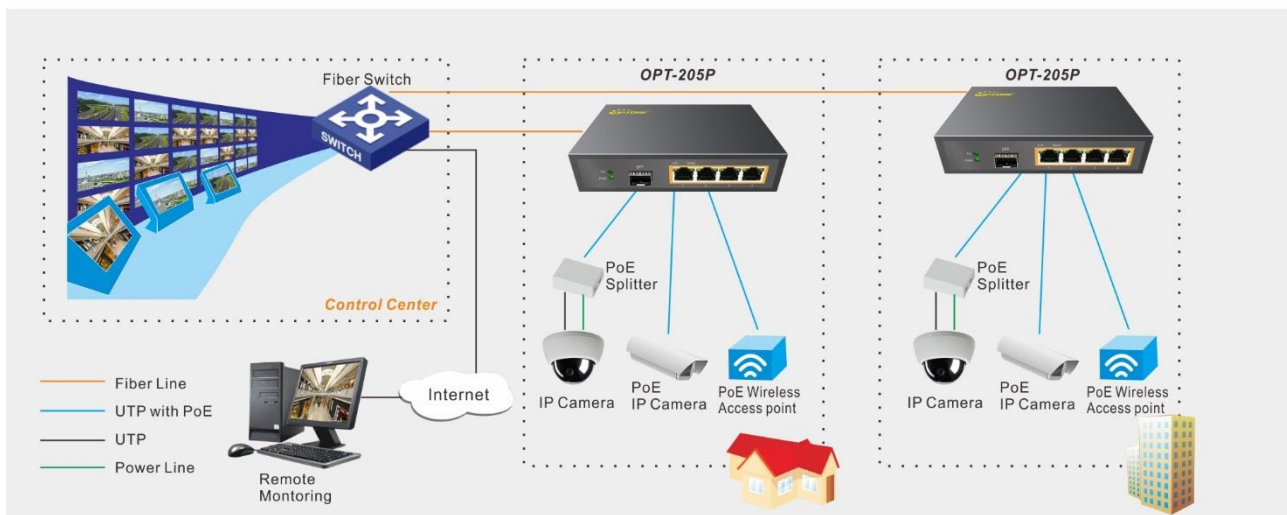
- FCC Part 15 of Class A & CE approved

### Warranty

- 3 years

## >> Applications

The following illustrates typical applications for the OPT-205P series. The actual distances will depend on several factors including the quality of cables used and the terminal equipment employed.





## >>Ordering Information

### **Double Fiber**

OPT-205PM05	4*10/100/1000Base-Tx(PoE) to 1000Base-Fx, Multi mode, 0.5Km, SC/ST/FC optional
OPT-205PS20	4*10/100/1000Base-Tx(PoE) to 1000Base-Fx, Single mode, 20Km, SC/ST/FC optional
OPT-205PS40	4*10/100/1000Base-Tx(PoE) to 1000Base-Fx, Single mode, 40Km, SC/ST/FC optional
OPT-205PS60	4*10/100/1000Base-Tx(PoE) to 1000Base-Fx, Single mode, 60Km, SC/ST/FC optional
OPT-205PS80	4*10/100/1000Base-Tx(PoE) to 1000Base-Fx, Single mode, 80Km, SC/ST/FC optional

### **Single Fiber**

OPT-205PW20	4*10/100/1000Base-Tx(PoE) to 1000Base-Fx, Bi-Directional, 20Km, SC/ST/FC optional
OPT-205PW40	4*10/100/1000Base-Tx(PoE) to 1000Base-Fx, Bi-Directional, 40Km, SC/ST/FC optional
OPT-205PW60	4*10/100/1000Base-Tx(PoE) to 1000Base-Fx, Bi-Directional, 60Km, SC/ST/FC optional
OPT-205PW80	4*10/100/1000Base-Tx(PoE) to 1000Base-Fx, Bi-Directional, 80Km, SC/ST/FC optional

### **SFP Port**

OPT-205P	4*10/100/1000Base-Tx(PoE) to GE SFP port
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### **Optional SFP (Only OPT-205P)**

<i>Model</i>	<i>Rate</i>	<i>Wavelength</i>	<i>Distance</i>	<i>Connector</i>
SFP-SX-MM-0205	1.25Gbps	850nm	0.5km	Duplex LC
SFP-LX-SM-0220	1.25Gbps	1310nm	20km	Duplex LC
SFP-LX-SM-0240	1.25Gbps	1310nm	40km	Duplex LC
SFP-ZX-SM-0280	1.25Gbps	1550nm	80km	Duplex LC

## >>Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by OPTONE before they become applicable to any particular order or contract. In accordance with the OPTONE policy of continuous improvement specifications may change without notice.

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