

## OPT-205 Series Gigabit Ethernet Switch

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

RoHS Compliant



### >>Description

The switch provide 4-port 10/100/1000M RJ45 and 1-port 1000M 1x9(SC/ST/FC) or SFP fiber ports, user may need to use different SFP modules, such as 1000Base-T, 1000Base-SX, 1000Base-LX and so on. Switch by the United States the latest Marvell IC, stable performance and excellent quality, with a higher cost performance. For small optical Ethernet and optical network with special needs.

### >>Main Features

- Complies with IEEE802.3, IEEE802.3u/ab/z standard
- 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 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)

### LED Indicators

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

### Switch Properties

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

### Power Requirement

- 12V 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

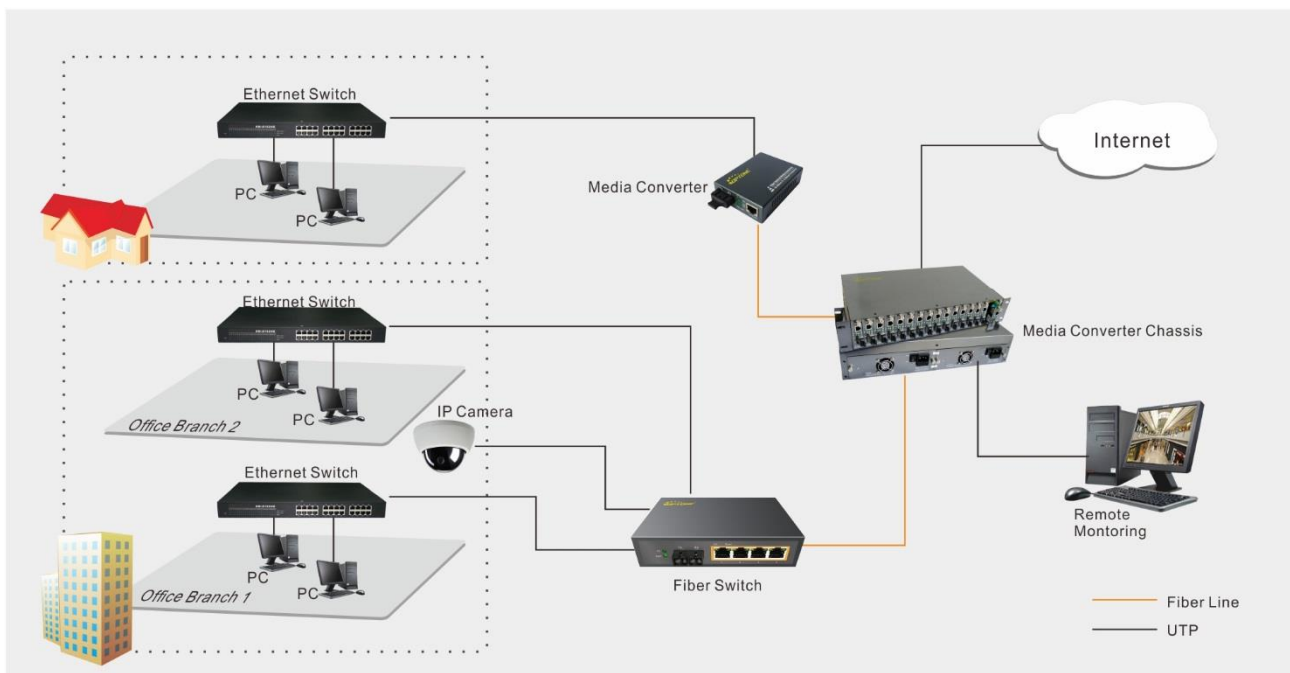
- FCC Part 15 of Class A & CE approved

### Warranty

- 3 years

## >> Applications

The following illustrates typical applications for the OPT-205 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-205M05	4*10/100/1000Base-Tx to 1000Base-Fx, Multi mode, 0.5Km, SC/ST/FC optional
OPT-205S20	4*10/100/1000Base-Tx to 1000Base-Fx, Single mode, 20Km, SC/ST/FC optional
OPT-205S40	4*10/100/1000Base-Tx to 1000Base-Fx, Single mode, 40Km, SC/ST/FC optional
OPT-205S60	4*10/100/1000Base-Tx to 1000Base-Fx, Single mode, 60Km, SC/ST/FC optional
OPT-205S80	4*10/100/1000Base-Tx to 1000Base-Fx, Single mode, 80Km, SC/ST/FC optional

### **Single Fiber**

OPT-205W20	4*10/100/1000Base-Tx to 1000Base-Fx, Bi-Directional, 20Km, SC/ST/FC optional
OPT-205W40	4*10/100/1000Base-Tx to 1000Base-Fx, Bi-Directional, 40Km, SC/ST/FC optional
OPT-205W60	4*10/100/1000Base-Tx to 1000Base-Fx, Bi-Directional, 60Km, SC/ST/FC optional
OPT-205W80	4*10/100/1000Base-Tx to 1000Base-Fx, Bi-Directional, 80Km, SC/ST/FC optional

### **SFP Port**

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

<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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