

OPCOM100 Series CWDM System

OPCOM100 series are Raisecom's Coarse Wavelength Division Multiplexing devices. The CWDM product line is developed and designed for fully utilizing the existing fiber resources in metropolitan area and carrier's access networks. Since optical fiber has become the most popular means of telecom transportation, incumbent carriers would like to use fiber to access and aggregate users, providing flexibility and bandwidth on demand. OPCOM100 series CWDM systems are capable of transporting multiple independent services from 2, 4, to 8 in one single pair of fiber (single-strand fiber can provide 4 service channels), without interference to each other. They have enabled carriers to expand their transportation capability smoothly and conveniently, in terms of removing works of digging holes and planting new fibers. Also, from the economy prospective, deploying two equipment point to point will be more cost effective than planting new fibers at metropolitan area.



OPCOM100 series CWDM System



PB-16 Passive Chassis

Highlights

- > Applicable in the emergency expansion of the telecommunications engineering;
- > Available for transparent transmission in the SAN, LAN, MAN, and the application of lacking in fiber resources;
- > Applicable to telecommunications carriers, enterprises, institutions, community broadband network construction, especially the occasion of the leased fiber optic cable;
- > Solve a variety of network fiber resource constraints;
- > Compatible with PB-16 passive chassis for hosting .



OPCOM100-2-2-SU(REV.C)

OPCOM100-2-2-SU(REV.C) provides 2 wavelengths 1310 and 1550nm multiplexing and demultiplexing on a dual strand fiber. It is mainly for the access network aggregation and metro areas. The product can save fiber resources to improve utilization rate of the optical fiber, avoid repeated fiber-optic laying, and save construction, operation and maintenance costs.



OPCOM100-2-2-SU(REV.C)

Key Features

Features	Passive device, plug and play, no configuration, and maintenance is simple; small size, easy to install; Transparent to service signals, all services with any rates can be accessed; There are two 1310/1550nm WDM components in the product which can multiplex two paths of dual-fiber bi-directional services into two fibers to transmit; Inserted chip plastic design, can be inserted into 3U 16 slots PB16 passive chassis and be applied to the outdoor environment.
Dimensions	130(H)*25(W)*100(D) mm
Optical connector	SC/UPC
Transmission media	Single mode fiber
Working temperature	-40~ 65 Celsius
Storage temperature	-40 ~75 Celsius
Relative humidity	5 ~ 90% non condensing

OPCOM100-2E-1-SU(REV.C)

OPCOM100-2E-1-SU(REV.C) is a Raisecom enhanced passive single/dual-fiber converter which is realized by WDM product. One wavelength channel is 1310nm+1490nm, the other one is 1550nm. The product is intended for broadcasting tri-networks integration market, 1310/1490nm PON bi-directional data service signal and 1550nm CATV broadcast signal are multiplexed into a fiber to transmit, to realize triple play which can save line cable resource. The product is also used in point-to-point middle/long distance single-fiber bi-directional transmission. As optical signals with 1310nm band has higher loss rate than optical signals with 1490nm band in fiber, signals with 1490/1550nm bands are transmitted in single-fiber bi-directional transmission which can realize middle/long distance transmission, save cable resource.



OPCOM100-2E-1-SU(REV.C)

Key Features

Features	Support one or two (1310+1490)/1550nm WDM components in the product which can multiplex 1550nm signal and 1310, 1490nm signal into a fiber to transmit, so a fiber can transmit three signals with different wavelengths at the same time; Transparent to service signals, all services with any rates can be accessed; Low insertion loss, low polarization sensitivity, high return loss, good optical performance index, no effect of transmission quality of optical signals; Passive product, plug and play, no configuration, simple maintenance, small size, easy installation; Standard plastic insertion encapsulation structure, insertion box can insert into Raisecom PB16 sixteen slots 3U passive chassis and be applied in outdoor environment.
Dimensions	130(H)*25(W)*100(D) mm
Optical connector	1310/1490nm Optical Interface:SC/UPC 1550nm Optical Interface:SC/APC
Transmission media	Single mode fiber
Working temperature	-20 ~ 65 Celsius
Storage temperature	-40 ~ 75 Celsius
Relative humidity	5 ~ 90% noncondensing

OPCOM100-OMU8-SU(REV.A)

OPCOM100-OMU8-SU(A) is a passive eight-wave CWDM device which is produced by Raisecom, and the eight wavelength channels: 1471nm, 1491nm, 1511nm, 1531nm, 1551nm, 1571nm, 1591nm, 1611nm. Optical signals with eight CWDM channel wavelength can be multiplexed into a fiber to transfer by the product, and the product can realize demultiplexing as reversibility of CWDM components. Line and fiber resource can be saved and optical cables don't need to be layed again and also to save cost.



OPCOM100-OMU8-SU(REV.A)

Key Features

Features	Eight-wave CWDM device which can multiplex eight CWDM channel wavelength (1471~1611nm) signals into a fiber to transfer. It can be used in multiplexing direction and demultiplexing direction; Low insertion loss, low polarization sensitivity, high return loss, good optical performance index, no effect of transmission quality of optical signals; Passive product, plug and play, no configuration, simple maintenance, small size, easy installation; Standard plastic insertion encapsulation structure, insertion box can insert into Raisecom PB16 sixteen slots 3U passive chassis and be applied in outdoor environment.
Dimensions	130(H)*25(W)*100(D) mm
Optical connector	SC/UPC
Transmission media	Single mode fiber
Working temperature	-10 ~ 65 Celsius
Storage temperature	-40 ~ 75 Celsius
Relative humidity	5 ~ 90% non condensing

OPCOM100-PSDU-A-SU(REV.C)

OPCOM100-PSDU-A-SU(REV.C) is a passive insert box-style dual-fiber converter in 1310nm band, and it is a conventional model product in Raisecom OPCOM100-PSDU passive single/dual-fiber converter. The product uses optical circulator technology which is different from other common WDM technology. Users can use the product to transform 1310 wavelength dual-fiber bi-directional point-to-point transmission system as single-fiber bi-directional transmission. Line and fiber resource can be saved and optical cables don't need to be layed again and again to save cost by using PSDU product. And PSDU product is also applied in emergency communication if optical cables fail.



OPCOM100-PSDU-A-SU(REV.C)

Key Features

Features	Transformation function of 1310nm wavelength optical signal single/dual-fiber transmission can be realized; Transparent to service signals, all services with any rates can be accessed; Low insertion loss, high isolation, low polarization sensitivity, high return loss (APC fiber end on line side), good optical performance index, no effect of transmission quality of optical signals; Passive product, plug and play, no configuration, simple maintenance, small size, easy installation; Standard plastic insertion encapsulation structure in Telecom, insertion box can insert into Raisecom PB16 sixteen slots 3U passive chassis and be applied in outdoor environment.
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Dimensions 130(H)*25(W)*100(D) mm

Optical connector SC/UPC optical port on client side, SC/APC optical port on line side

Transmission media Single mode fiber

Working temperature -10 ~ 65 Celsius

Storage temperature -40 ~ 75 Celsius

Relative humidity 5 ~ 95% non condensing



Ordering Information

PB 16 chassis	3U high passive 16-slot chassis without power supply;
OPCOM100-2E-1-SU(REV.C)	Single-channel, (1310+1490)/1550nm, optical interface of 1310/1490nm channel is SC/UPC, optical interface and line optical interface of 1550nm channel is SC/APC, plastic insertion box encapsulation, and it can be inserted into PB16 passive chassis;
OPCOM100-OMU8-SU(REV.C)	8-channel CWDM device; optical interface is SC/UPC, plastic insertion box encapsulation, and it can be inserted into PB16 passive chassis;
OPCOM100-PSDU-A-SU(REV.C)	1310nm band passive insertion single/dual-fiber converter, SC/UPC optical interface on client side, SC/APC optical interface on line side, plastic insertion box encapsulation, and it can be inserted into PB16 passive chassis;
OPCOM100-2-2-SU(REV.C)	Two channels, 1310/1550nm, SC/UPC optical interface, plastic insertion box encapsulation, and it can be inserted into PB16 passive chassis;