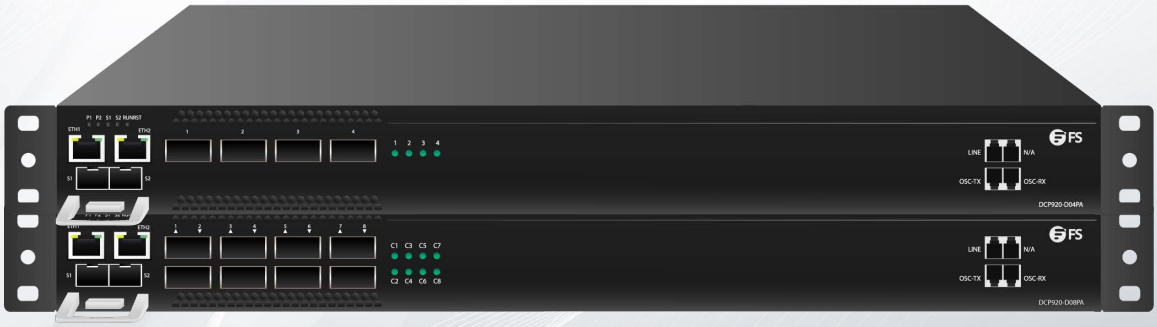
DCP920 Series Frequently Asked Questions (FAQs)

SUPPORT SINGLE-FIBRE BIDIRECTIONAL TRANSMISSION



Overview

DCP920 Series is a complete, high-reliability active DWDM Open line system for long-distance applications, composed of mux/demux, tunable dispersion compensation module, dispersion compensation module, variable optical attenuator, optical amplifier and red/blue filter. Moreover, it is embedded 4x/8x 100G PAM4 Module, so you can use 100GBase-SR4/LR4/IR4 Modules directly, without worrying about the compatibility between the switch and PAM4 module.

DCP920 Series provides 4x/8x channels of 100G services while maintaining the simplicity of zero-touch provisioning, dedicated for 0-80km point-to-point transmission over single fiber without a relay station.

Benefits

- Embedded 4x/8x PAM4 QSFP28 Modules, Accepts 4x/8x 100GBase-SR4/LR4/IR4 Modules
- Composed of Mux/Demux, DCM, VOA, TDCM, EDFA R/B and DCP Sites
- Support Single-fiber Bidirectional Transmission to Maximize the Usefulness of Fiber
- Zero-Touch Provisioning
- Redundant Hot-pluggable 2x AC Power Supply Units and 3x Fans
- Support WEB and Out-band OSC Management for Easy Network Management
- Support 0-80km Point-to-point Transmission

Frequently Asked Questions

1. Can the DCP920 series support the display of DDM, P/N, serial number and other information of the inserted module and support the export of information?

DCP920 series support module DDM related information.

2. Does the DCP920 series support 800G and above bandwidth transmission?

Yes, support.

3. How does the DCP920 series implement automatic provisioning and service debugging?

DCP920 series completes the automatic debugging function of the system through optical power and dispersion compensation.

The judgment is based on the bit error rate of the PAM4 module.

4. What is the maximum transmission capacity supported by DCP920 series devices?

800G for single fiber and 1.6T for dual fiber. And it can support stack expansion.

5. What is the maximum transmission distance supported by DCP920 series devices?

The maximum transmission distance is 80km, which can be customized to 120km.

6. What alarms and monitoring does the DCP920 series support?

EDFA, VOA, TDCM, and optical module indicator monitoring.

7. What are the advantages of DCP920 series compared with traditional solutions?

There are four main advantages：

1. 1U form factor, easy to install, saving the tedious use of fiber Jumpers.
2. Automatic business debugging function, saving manual cutover time.
3. Rapid deployment, simplifying early project information communication, no need for scheme configuration.
4. Single-fiber bi-directional large-bandwidth transmission saves cost and budget.

8. Do the power supply, fan, and main control card of DCP920 series support hot swap?

Yes, support.

9. Is it possible to provide the built-in wavelength of the product?

DCP920-D04PA&DCP920-D04PB：

C45/46/47/48/55/56/59/60, C23/24/29/30/33/34/35/36

DCP920-D08PA&DCP920-D08PB：

C45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60，

C21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36

10. What is the transmission distance of OSC?

120KM.

11. Can the OSC optical port droop the speed?

Yes, both 100M and 1000M are supported.

12. Is it compatible with other products? For example, can the OSC interface be cascaded with the FMT chassis optical interface for management?

No, unless the FMT chassis replaces the AT91 main control card.

13. How to repair the damaged built-in module? Replace the module directly or replace the whole chassis?

It is currently necessary to replace the whole chassis.

14. MTBF?

＞100000 hours.

15. How many users can log in to the WEB at most?

No limit.

16. What management methods does the DCP920 series support? Is there any other management method besides WEB?

DCP920 Series supports WebGUI/SNMPv3/AmpCon-T network management.