



DPN-F3008J

DPN-F3008J is a high density GPON OLT. It is 1U height and box shaped. With the industry leading technology, DPN-F3008J is fully compliant with ITU-T G.984.x & G.988 GPON standards, it can interwork with different types of ONUs from different vendors. Based on the proven and robust OS software platform. The system is highly reliable and stable. DPN-F3008J supports network management via CLI and SNMP, the user interface is good and easy to operate.

DPN-F3008J provides 8 GPON ports, and 2 10GE or 8 GE ports for uplink. One GPON port can manage up to 128 ONUs, one DPN-F3008J can manage up to 1024 ONUs. The installation and commissioning is easy so that the operators' investments are minimized. It is an excellent choice for service providers to quickly deploy a GPON FTTH network.

PHYSICAL CHARACTERISTICS

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| Switching Capacity | Bidirectional 205Gbps |
| PON Interface | 8 GPON ports |
| Uplink Interface | Three alternative uplink modes are supported. Mode 1: 10GE * 2 Mode 2: 1GE * 8 Mode 3: 10GE * 2 +1GE * 4 |
| Power Supply | Dual AC or dual DC to provide 1+1 protection AC: 100~240V, 47~63Hz DC: -38V~-72V |
| Power Consumption | <87W |
| Dimensions (mm) (W*D*H) | 445mm*340mm*44.5mm 487mm*340mm*44.5mm (With hanger) |
| Environment | Working Temperature: -5°C~45°C Storage Temperature: -40°C~70°C Relative Humidity: 10%~90%, no condensing |

TECHNICAL SPECIFICATIONS

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| PON Features | <p>Compliance with ITU-T G.984x, G.988 and operator related standards. Up to 128 GPON ONUs per PON port. 5 types of bandwidth profiles.</p> <p>Multiple ONU authentication mechanisms, including LOID, SN, Password, and combined authentication.</p> <p>ONU information report. ONU auto register (SN mode). ONU reverse query. ONU auto configuration according to ONU type. DBA (Dynamic Bandwidth Allocation). Ranging and logical distance configurable. Bidirectional FEC. AES encryption. ONU service batch upgrade. PON port isolation. Configuration of ONU management IP.</p> |
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TECHNICAL SPECIFICATIONS

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| PON Features | | <p>Configuration of TR069 for ONU.</p> <p>ONU UNI port MAC address filtering.</p> <p>ONU UNI port status checking.</p> <p>RSSI Alarm for PON and ONU.</p> <p>ONU capability set query.</p> <p>SFU UNI port status query.</p> <p>ONU version batch upgrade.</p> <p>Remote ONU loop detection.</p> <p>ONU MAC-move alarm.</p> <p>Type-B PON protection.</p> <p>Port control for ONU with CATV interface.</p> <p>ONU QoS configuration.</p> <p>Rogue ONU detection.</p> <p>ONU traffic statistics while PM (Performance Management) disabled.</p> <p>ONU VoIP configuration via OMCI.</p> <p>Default ONU-type configurable.</p> <p>ONU WiFi configuration via OMCI.</p> <p>ONU WAN configuration via OMCI.</p> <p>ONU UNI ports loop detection.</p> <p>MAC limit based on ONU service-port.</p> |
| System Function | | <p>Dual AC or dual DC for power redundancy.</p> <p>Software version switchover.</p> <p>Fan speed automatically or manually adjustable.</p> <p>System level temperature threshold configurable.</p> |
| Ethernet Features | VLAN | <p>4K VLANs</p> <p>QinQ and smart QinQ</p> <p>VLAN adding, VLAN translation, VLAN transparently transmission, VLAN priority modification.</p> |
| | Spanning Tree | STP/RSTP/MSTP |
| | Port Management | <p>Bidirectional bandwidth control</p> <p>Static aggregation groups and LACP aggregation groups, load balance based on MAC/IP.</p> <p>Port mirrors and service mirrors</p> <p>SFP information readable</p> <p>Port RSSI configurable and alarm function</p> |
| | Multicast | <p>IGMPv1 / v2 / v3</p> <p>IGMP Snooping / Proxy</p> <p>MLD Snooping / Proxy</p> <p>MLDv1</p> <p>Static multicast function</p> <p>Multicast VLAN spanning</p> <p>Multicast version globally control</p> <p>Multicast pre-configuration</p> |
| | PPPoE | PPPoE+ based on VLAN |
| | QoS | <p>Bidirectional service traffic speed limit</p> <p>Downlink simple scheduling and hierarchical scheduling</p> <p>QoS in-direction queue mapping</p> <p>Queue priority scheduling (SP / WRR / SP + WRR)</p> |

TECHNICAL SPECIFICATIONS

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| L3 functions | DHCP | DHCP-Relay DHCP-Snooping DHCP-Option82 |
| | VLANIF | VLAN layer 3 interface and IP address function |
| | ARP | Arp-agent |
| | Routing | Static routing Default routing OSPFv2 |
| Security Features | User Security | Port isolation and ONU isolation MAC filtering function |
| | Device Security | Broadcast storm control Anti-DoS User classification to prevent unauthorized users from illegal invasion Auto reboot under ultra high temperature SSH Radius |
| | Network Security | Broadcast and multicast packet control based on port. Traffic classification and definition based on IP packet header information including source / destination MAC, VLAN, 802.1p, ToS, DiffServ, source / destination IP (IPv4/ IPv6), TCP / UDP port number, protocol type. L2-L7 ACL traffic classification at packet header depth of 80 bytes Service traffic Support business flow strategy, including mirroring, redirection, statistics, filtering IP-source-guard function. |
| Network Management | Serial port (serial) Telnet and command line interface (CLI) Idle time and absolute time control for serial and CLI NMS (Network Management System) based on SNMP | |