



DPN-1251M

4GE+1POTS+AC1200 Wi-Fi+USB2.0 ONT

D-Link DPN-1251M GPON ONT is a new terminal level GPON ONT, which is a variety of FTTB \ FTTH \ FTTO access ONT for carrier-grade FTTH network applications. It can support pure data, Data +Voice, Data+ Voice+ WIFI and many other service accessing type.

D-Link DPN-1251M supports standard OMCI, which provides up to 1.25Gbps uplink and 2.5Gbps downlink high-speed transfer rate and supports 802.11ac dual band WiFi5 speed up to 1.2Gbps.

Features

- GPON WAN port with 1.244Gbps uplink / 2.488Gbps downlink link speed
- Active Ethernet WAN port with 1.25Gbps bi-direction link speed
- 4x 10/100/1000BASE-T Ethernet RJ45 Ports
- Support 2.4G 802.11b/g/n 2T2R speed up to 300Mbps
- Support 5G 802.11a/n/ac 2T2R speed up to 867Mbps
- 1x FXS RJ11 ports for Voice service
- 1x USB2.0 ports in host or device mode (optional)
- DC 12V adaptor, max 1.5A current
- -5 to 45°C operating ambient temperature

Technical Specifications		
CPU	Dual core 900MHz CPU	
Chip model	EN7528	
FLASH/RAM	NAND FLASH 1Gbit(128MB)/2G DDR3 RAM	
BOB Driver	EN7571	
Wi-Fi Chip	MT7592N+MT7613B	
SLIC	Si32192	
GPON Protocol Specification	-Comply ITU-T G.984 GPON standard: -G.984.1 general characteristics -G.984.2 physical Media Dependent (PMD) layer specifications -G.984.3 transmission convergence layer specifications -G.984.4 ONT management and control interface specification -Support DS/US transmission rate to 2.488 Gbps/1.244 Gbps -Wavelength: 1490 nm downstream & 1310 nm upstream -Comply with class B+ type PMD -Physical distance reach to 20 km -Support Dynamic Bandwidth Allocation (DBA) -GPON Encapsulation Method (GEM) supports Ethernet packet -Supports GEM header removal/insertion and data extraction/segmentation -(GEM SAR) -Configurable AES DS and FEC DS/US -Support up to 8 T-CONs each with priority queues (US)	
Network Protocol Specifications	-802.3 10 Base T Ethernet -802.3u 100 Base TX fast Ethernet -802.3z 1000 Base TX fast Ethernet -ANSI/IEEE 802.3 NWay auto-negotiation -802.11b/g/n Wireless LAN 300Mbps -802.11a/n/ac Wireless LAN 867Mbps -802.1Q VLAN tagging/un-tagging -Support flexible traffic classification -Support VLAN staking -Support VLAN Intelligent Bridging and Cross Connect mode	
Interface	WAN: One Giga optical interface (APC) LAN: 4 10/100/1000 auto MDI/MDI-X RJ-45 ports Wireless: 2*5 dbi 2.4G & 5G dual band external antennas FXS: One FXS USB: One USB 2.0 host ports Power supply: 12 V DC, 1.5A	
Voice Functionality	Codecs: G.711 a/u, G.723, G.726 DTMF tone: detection and generation	
Phone Features	-Internal call -T.38 FAX relay, T30 -Call waiting, forwarding, transferring, hold/call retrieve -Three-way conference -Second call/Adding an outgoing call -Switch between 2 active calls	
Frequency Band	2.4 GHz frequency and 5.8 GHz frequency	
EIRP Value	2.4Ghz: 29dBm 5Ghz: 29dBm	
Security	-WPA/WPA2/WPA3, 64/128 bit WEP data encryption -Firewall, Dos Protection	
WAN Networking	-Static IP WAN connection -DHCP client WAN connection -PPPoE WAN connection	
Management	-Standard OMCI (G.984.4) -Web GUI (HTTP/HTTPS) -Firmware upgrade via FTP/TFTP/HTTP -Telnet, Web, SSH -CLI command via telnet/console -Two-level administration privilege for web configuration -Configuration backup/restore	
Power Specifications	Power adapter input: 100—240V/AC 50/60Hz Whole machine power supply: 12V/1.5A DC	
LED Indicators	Power, PON, LOS, INTERNET, 2.4GWLAN, 5GWLAN, LAN1~4, PHONE, USB, WPS	
Product Size	150X142X36 mm(length X width X height)	
Work Environment	Working temperature: -10°C - 50°C Working humidity: 0 - 90%	
Certification	CE/FCC	