PON Product

■ Datasheet

C524W

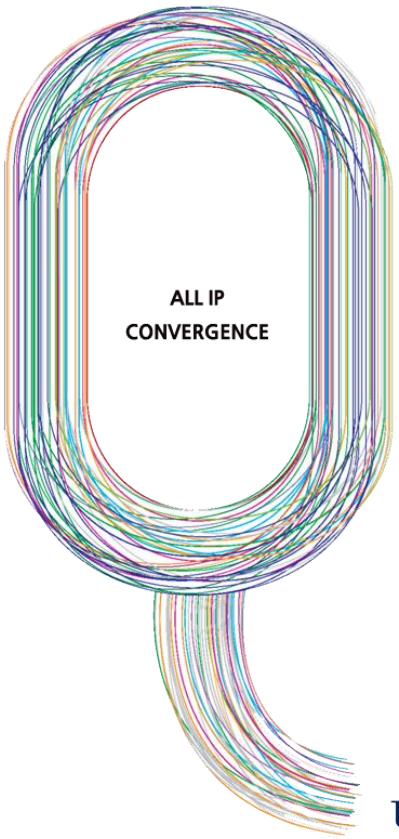

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Table of Contents

FTTH GE-PON 솔루션 >> ONT >> C524W

GE-PON ONT 4-port FE + 2-port FXS + Wi-Fi + EPON (라우팅 모드)

소개

C524W는 EPON 기술 기반의 다기능 고속 라우터 ONT입니다. 본 제품은 4 FE, 2FXS 그리고 WIFI 802.11b/g/n 인터페이스를 제공합니다.

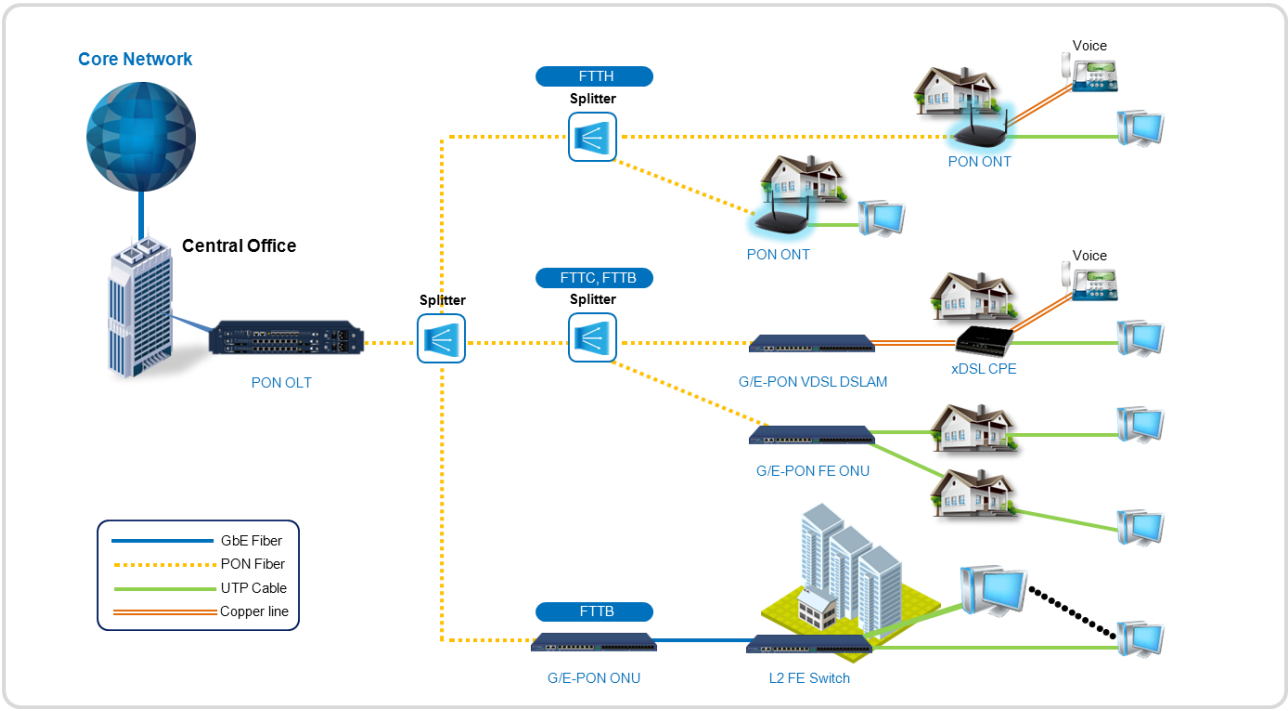
C524W는 완벽하게 Triple Play Service를 제공하기 위해 광 케이블을 통하여 OLT에 연결됩니다.

본 제품는 아파트, 사무실, 일반주택에서 PC, 랩탑, 스마트폰, VoIP 폰과 연결되어 가입자에게 고품질, 고속도의 Triple Play Service를 제공합니다.

본 제품은 첨단의 EPON 기술을 적용한 것 뿐만 아니라 기존에 이더넷 스위치에서 적용된 .QoS 기능, 관리기능, 보안 기능의 다양한 기능들을 제공합니다.

C524W는 가입자 다운스트림 인터페이스를 위해 4개의 10/100 Base-Tx 포트와 2개의 FXS RJ-11 포트 그리고 802.11 b/g/n의 WIFI 서비스를 제공하며 Remote Node에 연결된 GE-PON 인터페이스를 제공합니다.

망구성



특징

- 기존의 무선 장비와 호환성을 갖는 IEEE 802.11b/g/n 표준 지원
- WEP 64-bit / 128-bit 보안 암호 인증 및 802.1x, WPA, WPA2 지원
- 강력한 인터넷 공유 기능
- IEEE 802.1q VLAN Configuration 기능
- 10/100Mbps 를 지원하는 4 개의 유선 LAN 포트와 1.25G 의 1 개의 EPON WAN 포트
- DHCP 기능 지원(Server/Client)
- 특수한 어플리케이션, 가상 서버, DMZ, 접속제어, 방화벽 등의 부가적인 기능 지원
- 사용하기 편리한 웹 기반 GUI 스타일의 관리 프로그램
- 인터넷을 통한 원격지 시스템 관리 및 소프트웨어 업그레이드 지원

항목		설명
Type		Standalone type LED: Power,PON,DATA,LAN1,LAN2,LAN3,LAN4,Wireless Device status and Power status(ON/OFF)
Interface	PON	1000Base-PX10
	LAN	10/100BaseTx (RJ-45: 4 ports), MDI/MDIX Auto-Negotiation
	VoIP	FXS Interface(RJ-11: 2 ports)
	Power Switch	On/Off
	Power(DC)	DC 12V 1.5A
	Reset Switch	Reset to factory
	WPS Switch	Wi-Fi Protected Setup
	ANT	Fixed Wireless LAN Antenna
Front Panel LED	Power	Power On/Off status
	PON	Logical Link status of PON
	DATA	PON Link and Data Transmission status
	LAN	LAN Link and Data Transmission status
	VoIP	VoIP Link and Voice Call status
	Wireless	WLAN Link and Data Transmission status
Accessories		UTP Cat.5 Ethernet Cable(RJ-45, Straight) Power Adaptor (Input - AC: 100 ~ 220V (± 20%)) User Manual

인터페이스 구성

항목	스팩	설명
ON/OFF		Power On / Off
Power Jack DC 5V2A		The input terminal that a power adaptor is connected to.
LAN1~4	RJ-45	Connected through a LAN port UTP cable.
FXS1~2	RJ-11	Connected through a FXS port RJ-11 cable.
WiFi	802.11b/g/n	Wi-Fi Interface with WPS button (Optional)
Line	SC/PC	EPON port (need to be kept clean)

사양

항목	설명	
Standard	IEEE 802.3ah	
System Architecture	Type	Desktop
	Size (mm)	180(W) x 135(D) x 40(H)
Power	Input: 110~220 V ±15%, 60 ± 3Hz Output: +5V, 2A (power adaptor used) Consumption: Max 5.0W (typical: 4W)	

Available Interface	Management Interface	1 CIT
	PON interface	1 1.25G 1000Base-PX, 1 Core SMF
	User interface	4 10/100base-Tx (IEEE 802.3u)
	VoIP interface	2 FXS Telephone Line Interface for VoIP (RJ-11 port)
	Wi-Fi Interface	802.11b/g/n compliant
Environment Condition	- Operating Temperature/humidity: 0~50℃, humidity: 20~90% - Storage Temperature/humidity: -30℃~60℃/10%~90% - In compliance with EMI/EMC Class B	
Function and Performance	EPON	- IEEE802.3ah MPCP, OAM compliant - 802.1Q VLAN - Per LLID Filtering/Classification - Supports up to four Logical Link IDs (LLID) - AES-128 Downstream decryption - Dying Gasp - Automatic Plug and Play function for WAN PON Port (Discovery and Authorization)
	L2	- IEEE802.1Q VLAN - IEEE802.1D Spanning Tree Protocol - Support up to 256 MAC Address
	L3	- DHCP Function (Server) - NAPT Function
	PPPoE	- PPPoE (RFC 2516) - Support AUTO, PAP, CHAP, MS-CHAP authentication - Added static IP address assignment.
	Multicasting	IGMP v1/v2, IGMP proxy/snooping for IPTV service
	QoS	- IEEE802.1P - Packet classification and marking (802.1P) - Rate limiting
	Security & filtering	- MAC address Filter
	VoIP	- G.711A/u, G.729, G.723, G.722 etc. - T.38 Fax - Support different signals: dialing tone, ring back tone, etc. - Support SIP - RTP / RTCP Support RFC 3550 & RFC 3551 - Support call waiting, call holding, call forwarding - Three Party Service - SupportT.38 Fax - Support caller ID display (Type 1 and 2) - Support DTMF
System Operation and Maintenance	Link Measurement and diagnostic	- Support OAM Remote Loopback test. - OLT detects EPON Signal Strength to check the status of ONT signal received/transmitted based on - RSSI (Received Signal Strength Indicator) function between OLT and ONU.
Physical Characteristics	Optical characteristics	- Transmission distance: 10Km or 20Km(Optional)

		- Transmission quality: BER 10-10 or lower - Transmission level : -1~4dBm
	Dielectric resistance	100Mohm or higher (based on DC 500V)
Technical Standard and Protocol	IEEE Std 802.3™-2002 Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer specifications IEEE Std 802.11n: Wireless Local Area Networks IEEE Std 802.1D, 1998 Edition Media Access Control (MAC) Bridges IEEE Std 802.1Q, 2003Edition Virtual Bridged Local Area Networks IEEE Std 802.1w-2001 Media Access Control (MAC) Bridges — Amendment 2: Rapid Reconfiguration IEEE Std 802.1s™-2002 Virtual Bridged Local Area Networks— Amendment 3: Multiple Spanning Trees IEEE Std 802.1X-2001 Port-Based Network Access Control IEEE Std 802.3ah.-2004 Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer specifications Amendment: Media Access Control Parameters, Physical Layers, and Management Parameters for Subscriber Access Networks IEEE P802.1ad/D6.0 Draft Standard for Local and Metropolitan Area Networks—Virtual Bridged Local Area Networks — Amendment 4: Provider Bridges	