

FTTH GE-PON 솔루션 >> ONT >> C501K

GEPON ONT 1-port GE + EPON (브릿지 모드)



소개

C501K는 EPON 기술 기반의 다기능 고속 기가급 ONT입니다. 본 제품은 한 개의 기가 포트를 제공합니다. C501K는 완벽하게 TPS 서비스를 제공하기 위해 광 케이블을 통하여 OLT에 연결됩니다.

본 제품은 아파트, 사무실, 일반주택에서 PC, 랩탑과 연결되어 가입자에게 고품질, 고속도의 TPS 서비스를 제공합니다.

본 제품은 첨단 EPON 기술을 적용하였기 때문에, 기존에 이더넷 스위치에서 적용된 .QoS 기능, 관리 기능, 보안 기능등의 다양한 기능들을 제공합니다.

C501K는 가입자 다운스트림 인터페이스를 위해 1개의 10/100/1000 Base-Tx 포트를 제공하며, RN에 연결된 EPON 인터페이스를 제공합니다.

특징

- One port Gigabit Ethernet for downstream
- Bridge mode operation
- Multicast Support for IPTV Service
- LD Shutdown Function when ONT occurs the fault. (Automatic Shutdown Function)
- QoS
- IPv4/IPv6 Compatibility
- Compliant with 1000BASE-PX10 according to YD/T 1475-2006-EPON.
- ONU queue priority: no less than 4.
- Low Power consumption: less than 5W

항목	설명	
Type	<ul style="list-style-type: none"> • Standalone type • LED Configuration: PWR, Line, Data, LAN1 • Device line status and Power status(ON/OFF) 	
Interface	PON	<ul style="list-style-type: none"> • 1000Base-PX10 (SC/PC), need to be kept clean
	LAN	<ul style="list-style-type: none"> • One 10/100/1000BaseTx port, MDI/MDIX Auto-Negotiation
	Power Switch	<ul style="list-style-type: none"> • On/Off

	Input Power	<ul style="list-style-type: none"> DC 5V 2A
	Reset Switch	<ul style="list-style-type: none"> Reset to factory
Front Panel LED	Power	<ul style="list-style-type: none"> Power On/Off status
	PON	<ul style="list-style-type: none"> Logical Link status of PON
	DATA	<ul style="list-style-type: none"> PON Link and Data Transmission status
	LAN	<ul style="list-style-type: none"> LAN Link and Data Transmission status
Accessories	<ul style="list-style-type: none"> UTP Cat.5 Ethernet Cable(RJ-45, Straight) Power Adaptor (Input - AC: 100 ~ 220V (± 20%)) User Manual 	

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 Console Interface (Via Console Board)
	PON interface	1 1.25G 1000Base-PX, 1 Core SMF
	User interface	One Port 10/100/1000base-Tx (IEEE 802.3u)
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
	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 limiting
System Operation and Maintenance	Link Measurement and diagnostic	- Support OAM Remote Loopback test. - Support OLT's RSSI(Received Signal Strength Indicator) function so that OLT detects EPON Signal Strength to check the status of ONT's Rx/Tx signal.
	LD Shutdown Function	- Support the LD shutdown function so that OLT detects any ONTs working in continuous mode and turn off (shutdown) the laser diode of the ONT to prevent service failure over PON network - OLT forces to turn off the malfunctioning ONT by checking continuous mode on laser diode of ONT to block its burst operation. (Optional)
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)
	Low power function	Supports the power saving mode. (Max 5W)
Technical Standard and Protocol		- IEEE Std 802.3™-2002 Carrier sense multiple access with collision detection (CSMA/CD) access method and physical layer 사양s - 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 사양s 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