

A Smarter Way for Your Broadband Life

KANTECH KAN8245Q2,

An Intelligent Routing-Type ONT



## Extreme wireless speed of up to 1200Mbps

The KAN8245Q2 supports 900 Mbps on the 5GHz band and 300 Mbps on the 2.4GHz band, is ideal for multi-user household. With KAN8245Q2, all of your family members can play video games, listen to music, check email, shop, stream movies, and more-all simultaneously and without lag or buffering.

### Device Parameters

|                           |                                      |
|---------------------------|--------------------------------------|
| Dimensions (L x W x H)    | • 265mm X 176mm X 82mm               |
| Weight                    | • About 1500g                        |
| Operating temperature     | • 0°C to +40°C                       |
| Operating humidity        | • 5% RH to 95% RH (non-condensing)   |
| Power adapter input       | • 100-240 V AC, 50/60 Hz             |
| System power supply       | • 11-14 V DC, 2 A                    |
| Static power consumption  | • 8 W                                |
| Maximum power consumption | • 20.5 W                             |
| Ports                     | • 2POTS + 4GE + 2.4G/5G Wi-Fi + 1USB |
| Indicators                | • POWER/PON/LOS/TEL/LAN/WLAN/WPS/USB |

### Interface Parameters

|               |                                                                                                                                                                                                                                                                                                             |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet Port | <ul style="list-style-type: none"> <li>Ethernet port-based VLAN tags and tag removal</li> <li>1:1 VLAN, N:1 VLAN, or VLAN transparent transmission</li> <li>QinQ VLAN</li> <li>Limit on the number of learned MAC addresses</li> <li>MAC address learning</li> </ul>                                        |
| POTS Port     | <ul style="list-style-type: none"> <li>Maximum REN: 4</li> <li>G.711A/μ, G.729a/b and G.722 encoding/decoding</li> <li>T.30/T.38/G.711 fax mode</li> <li>DTMF</li> <li>Emergency calls (with the SIP protocol)</li> </ul>                                                                                   |
| WLAN          | <ul style="list-style-type: none"> <li>IEEE 802.11 b/g/n (2.4G)</li> <li>IEEE 802.11 a/n/ac (5G)</li> <li>3 × 3 MIMO</li> <li>Antenna gain: 2 dBi</li> <li>WMM</li> <li>Multiple SSIDs</li> <li>WPS</li> <li>2.4G/5G concurrent</li> <li>Air interface rate: 450 Mbit/s (2.4G); 1300 Mbit/s (5G)</li> </ul> |

### Interface Parameters

|           |                                                                                                                                                                                                                                                                                                                                                              |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GPON Port | <ul style="list-style-type: none"> <li>Class B+</li> <li>Receiver sensitivity: -27 dBm</li> <li>Wavelengths: US 1310 nm, DS 1490 nm</li> <li>WBF</li> <li>Flexible mapping between GEM Port and TCONT</li> <li>GPON: consistent with the 5N or password authentication defined in G.984.3</li> <li>Bi-directional FEC</li> <li>SR-DBA and NSR-DBA</li> </ul> |
| GPON Port | <ul style="list-style-type: none"> <li>USB2.0</li> <li>FTP-based network storage</li> <li>File/Print sharing based</li> <li>DLNA DMS/UPnP AV (media server)</li> </ul>                                                                                                                                                                                       |



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## Product Function

### Smart interconnection

- Smart Wi-Fi coverage
- SIP/H.248 auto-negotiation
- Any port any service
- Parental control
- L2/L3(IPv4) forwarding: 1G uplink, 2G downlink

### Smart service

- Smart Wi-Fi sharing:
- Portal/802.1x authentication
- SoftGRE-based sharing
- Association of one account with two POTS ports

### Smart O&M

- IPTV video quality diagnosis
- Variable-length OMCI messages
- Active/Passive rogue ONT detection and isolation
- Call emulation, and circuit test and loop-line test
- PPPoE/DHCP simulation testing
- WLAN emulation

### Layer 3 Features

- PPPoE/Static IP/DHCP
- NAT/NAPT
- Port forwarding
- ALG, UPnP
- DDNS/DNS server/DNS client
- IPv6/IPv4 dual stack, and DS-Lite
- Static/Default routes
- Multiple services on one WAN port

### Multicast

- IGMP v2/v3 proxy/snooping
- MLD v1/v2 snooping
- Multicast services through Wi-Fi

### QoS

- Ethernet port rate limitation
- 802.1p priority
- SP/WRR/SP+WRR
- Broadcast packet rate limitation

### Security

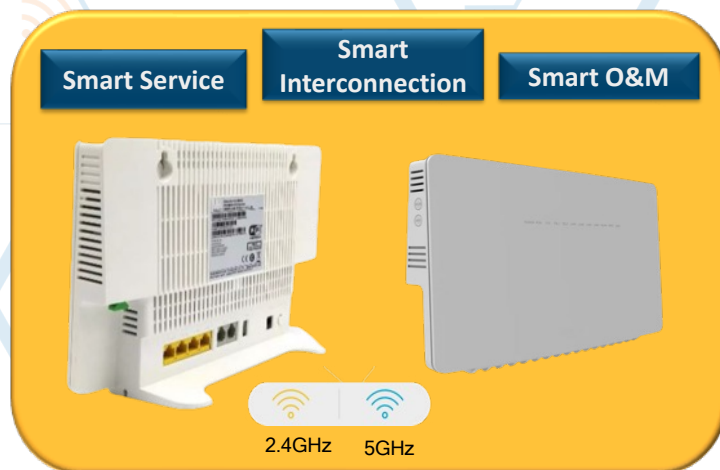
- SPI firewall
- Filtering based on MAC/IP/URL addresses

### Common O&M

- OMCI/Web UI/TR069
- Dual-system software backup and rollback

### Power Saving

- Indicator power saving
- Scheduled Wi-Fi shutdown



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