

A Smarter Way for Your Broadband Life

KANTECH KAN8245Q2,
An Intelligent Routing-Type ONT



Dual Band



VoIP



Parental Control



IPv6

Device Parameters

Dimensions (L x W x H)	• 265 mm x 176 mm x 82 mm
Weight	• About 1500 g
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

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

Interface Parameters

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

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

Interface Parameters

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

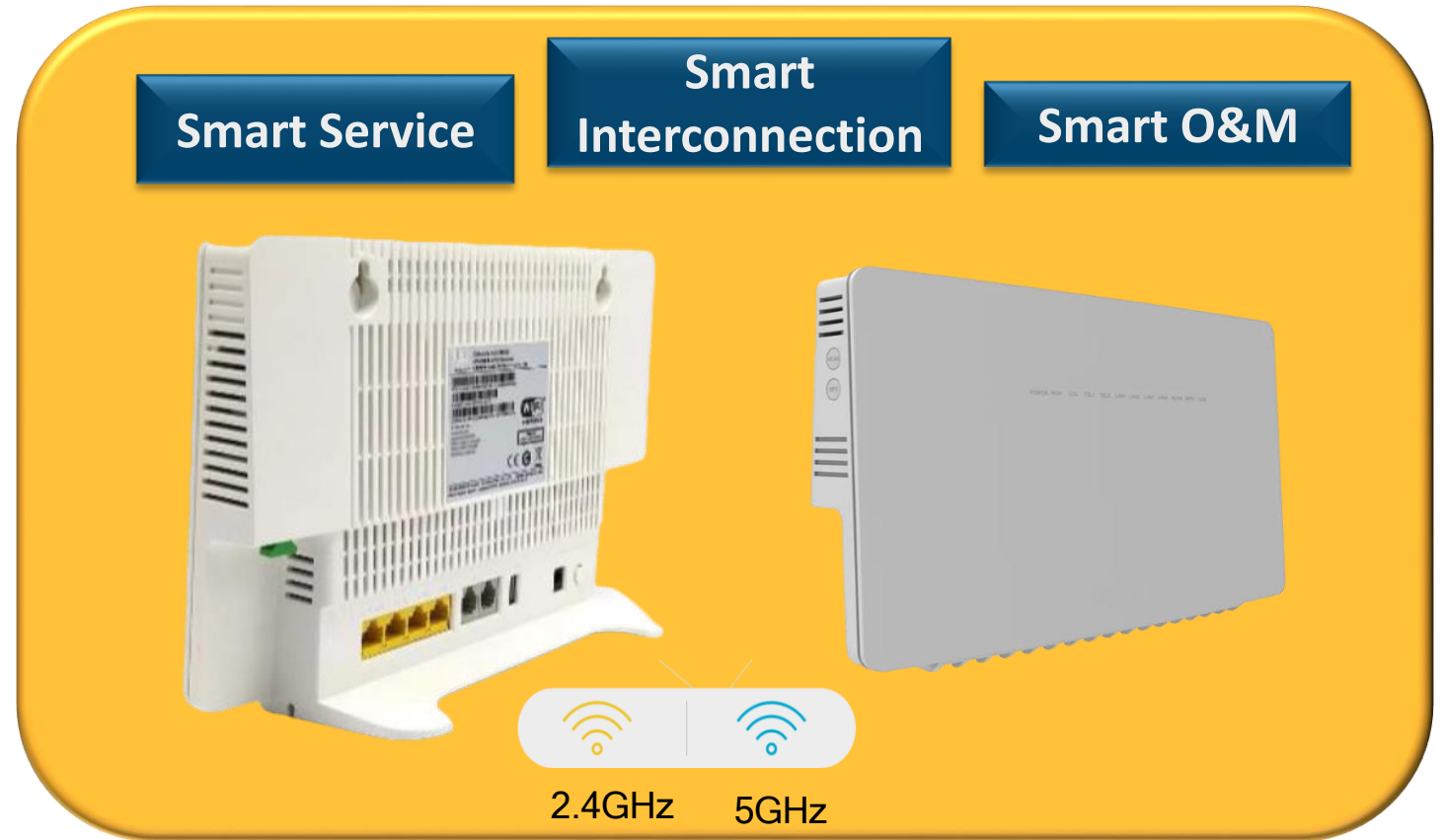
- SPI firewall
- Filtering based on MAC/IP/URL addresses

Common O&M

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

Power Saving

- Indicator power saving
- Scheduled Wi-Fi shutdown

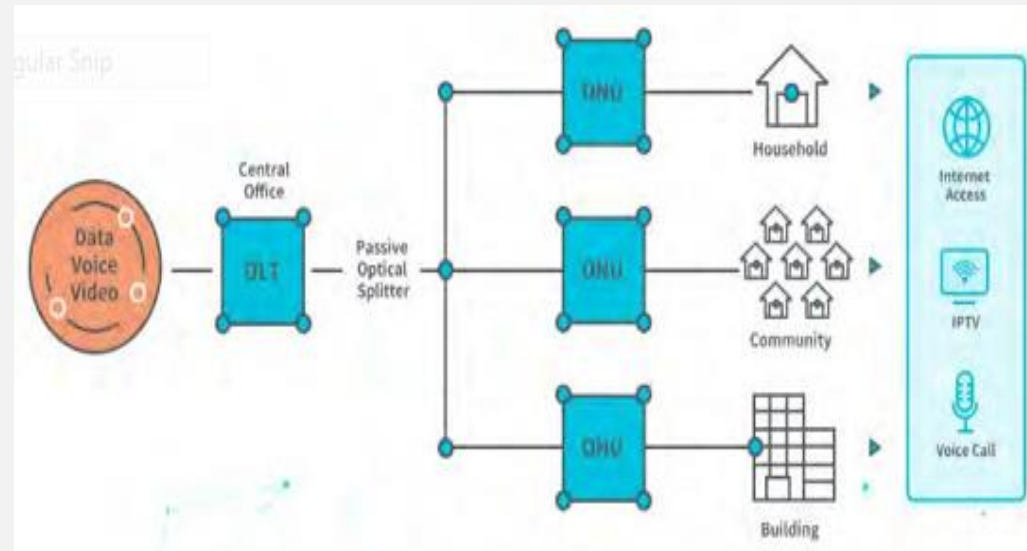


Extreme wireless speed of up to 1200Mbps

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

Access to Fiber Optical Network

Support downstream 2.5Gbps and upstream to 1.25Gbps with transmission distance up to 20km. Higher bandwidth support makes it possible to integrate and provide more additional services with the same device



Easy Remote Management

KAN8245Q2 support the ONT Management and Control Interface (OMCI), making it easy to configure, activate and manage remotely from an Optical Line Terminal(OLT).



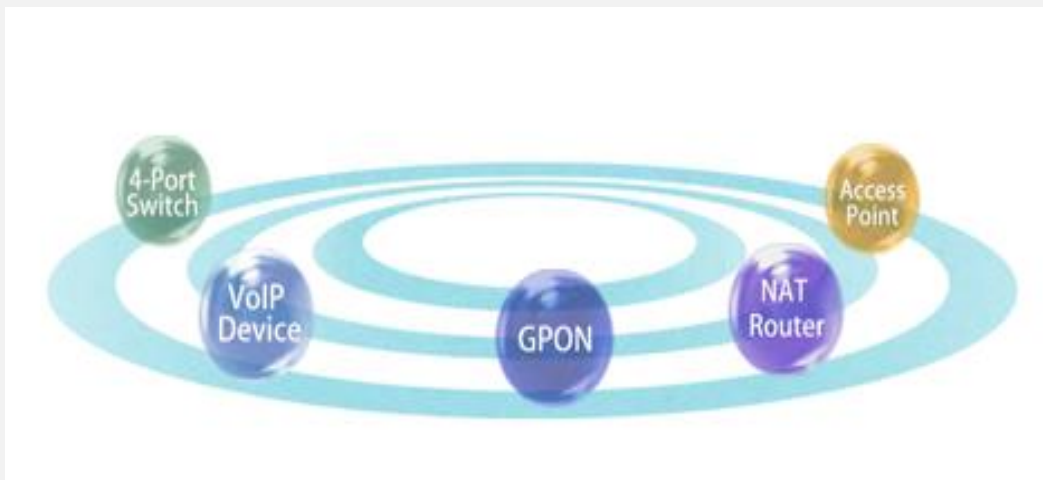
Manage Your Network with Advanced Features

The KAN8245Q2 supports various advanced settings including QoS, IPv6, parental controls, guest network, and many other features. Use these advanced features to build a network that is only customized for you



All-in-one Device

KAN8245Q2 is an one-stop solution that make everything of your home connected. KAN8245Q2 comes with 11ac Wi-Fi standard, offering total data transfer speeds achieving up to 1200Mbps, with 900Mbps over the clearer 5GHz channel, and 300Mbps over the 2.4GHz Channel



Supports VoIP Calls

With 2 FXS ports, users can make or receive phone calls over the Internet simply by connecting the device to their existing telephone set.



Full Gigabit Wired

With four gigabit LAN ports, speeds can be up to 10x faster than standard Ethernet connections. The KAN8245Q2 can provide robust and extremely fast connections to all of your favorite wired devices, including game consoles, smart TVs, DVRs, and more