

KONT- 1743

EPON HGU ONT (1GE+1FE+1POTS+802.11b/g/n Wi-Fi)

Feature Summary

- ◆ IEEE 802.3ah compliant
- ◆ Indoor wall or table mount
- ◆ One 10/100/1000Base-T
- ◆ One 10/100 Base-T
- ◆ One FXS POTS ATA RJ-11 port
- ◆ 802.11b/g/n 2Tx2R MIMO 2.4GHz Wi-Fi interface
- ◆ VoIP features: SIP, multiple voice codecs, T.38 Fax and various CLASS services
- ◆ Supports feature rich VoIP application profiles for Caller ID, Call progress, Call Waiting, Call Transfer.
- ◆ Integrated router with features such as IPv4, IPv6, IPoE, PPPoE, NAT, DHCP, DNS, IP Filtering, IP forwarding, Static IP routing, IP QoS and Firewall
- ◆ Built-in L2 switch with dynamic bridging, (802.1q tagged, untagged, port based, priority tagged, 802.1ad double tagged)
- ◆ ToS/DSCP to 802.1p (Tag Control Information bits) mapping
- ◆ IGMPv2/v3 snooping

Applications

The KONT-1743 has been optimized for small business and residential homes to provide triple play services with Dual band Wi-Fi support..

Advanced High Bandwidth GPON technology

The KONT-1743 is fully IEEE 802.3ah compliant 1.25 Gbps downstream and 1.25 Gbps upstream GPON systems.

Quality of Service

The KONT-1743 supports extensive QoS features, including ToS/DSCP to 802.1p mapping, Traffic classification and QoS based on layer 3 and layer 4 header prioritizable queues, ensures that tiered service offerings based on different bit-rates and QoS can be readily supported.

Gateway

The KONT-1743 contains both L2 switch and L3 routing gateway with port forwarding, NAT and NAPT address translation, built-in PPPoE support for HSI, and an integrated stateful packet inspection firewall and application-layer gateway (ALG). Support for VPN (L2TP, PPTP and IPSec) pass through is also provided. Included as part of the gateway function are DHCP client, DHCP server and DNS server for IPv4 and IPv6.

Security

The KONT-1743 comes with the latest security features, including access control list (ACL), DMZ, and wireless encryption protocols such as WEP and (WPA-PSK).

Flexible Management

The KONT-1743 is managed from KOLT Series. The KOLT in turn is managed with either Khwahish Element Management System (KEMS) that provides configuration, profile based provisioning, event and fault management and performance monitoring for the KONT.

SPECIFICATIONS

EPON Uplink interface

Standard	Fully IEEE 802.3ah compliant
Line rate	Downstream: 1.25 Gbps; Upstream: 1.25 Gbps
Connector	SC/APC, single-mode-fiber
Wavelength	Transmit: 1310nm; Receive: 1490nm
Tx Output pwr	+0.5 to +5.0 dBm launch power
Rx Sensitivity	-27dBm
Rx Overload	-8 dBm
Activation	Activation with automatic discovered MAC and LOID

Ethernet interface

Type	one 10/100/1000 Base-T interface + one 10/100 Base-T interface
Connector	RJ-45 connectors
Link	auto-negotiation and MDI/MDIX auto-sensing

Voice/Fax interface

Type	one POTS FXS
Connector	RJ-11 connector;
FXS	3 REN balanced ring, 55V RMS DTMF dialing, and Pulse Dialing

Wi-Fi WLAN interface

Standard	802.11b/g/n, 2.4GHz, MIMO:2x2 Multiple SSIDs) and 64 & 128 bit Wireless Encryption Protocol support (WEP) Wireless Protected Access support including Pre Shared Key (WPA-PSK) Radio switched on/off function support WPS
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Power

AC Adapter	12V (feed via external AC/DC Adapter)
DC Connector	2-pin Power adaptor input
Control	Power ON/OFF pushbutton on rear
Power	less than 20W, Dying Gasp support

Physical

Temperature	-5 °C to 50 °C
Humidity (RH)	5% to 95% relative humidity
Mounting	Desktop mounting & wall mounting
LED Indicators	PWR, PON, GE, FE, FXS, WLAN, WPS

OAM

Download	Remote software image download from OLT and Remote Reboot support.
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L2 features

Bridging	802.1d bridging,
Rate Limiting	Broadcast/Multicast Rate limiting
VLAN	VLAN Tagging/untagging per Ethernet Port VLAN Stacking (Q-in-Q) and VLAN Translation IGMPv2/v3 & snooping, and IGMP snooping 802.1p marking/re-marking; Class of service based on UNI, VLAN-ID, 802..1p bit and combination
Multicast	
Qos	

Gateway features

WAN	Multiple WAN interfaces support, PPPoE client, IPoE with DHCP client or static IP, NAT/NAPT, Port Forwarding
LAN	DHCP server, DNS relay, DDNS
Routing	Static IP routing
Others	NTP, Universal Plug and Play (uPnP)
QoS	Traffic Classification and Qos based on Layer 3 and Layer 4 header

IPv6 support

Features	Stateless Address Auto configuration (SLAAC) DHCPv6, PPPoEv6, DNSv6
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Firewall

Access control	ACL, DMZ,
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VoIP

Protocols	SIP (RFC3261SDP (RFC2327), RTP (RFC3550/3551), DTMF & Tones (RFC283) caller ID, call transfer, call forwarding, call hold, Call Toggle, call waiting,, 3-way calling, distinctive ringing etc.
Supplementary Services	ITU-T G.711 (μ & a-law), G.723.1, G.729a/b, G.726, echo cancellation (G.168), voice activity detection (VAD) and comfort noise generation (CNG), Static or dynamic jitter buffer.
Codec	
Fax	T.38 FoIP, G.711 for FAX, modem connection
IP address	DHCP client or static IP configuration Country specific ring tone generation Configurable Dial plan Metallic Loop Testing

Regulatory Compliances

Certification	CE compliant
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