



## RAX711 (B) Series

### Essential Demarcation Device

RAX 711(B) has a smaller size and more reliable power supply, which is a new generation Carrier-grade Ethernet demarcation device (EDD), which enables CE2.0 compliant EPL, EVPL, EP-LAN, EVP-LAN and E-Access services that are widely deployed for business connections, mobile backhaul and cloud scenarios. RAX711(B) is defined as a universal network terminal suitable for most last mile access applications. It ensures ultra-low delay and jitter for mission-critical services with hardware-based SLA performances.



### Highlights >>

<b>Network Security</b>	Upgraded security with port-isolation, advanced ACL, broadcast/multicast/DLF storm control, unique port loopback detection, and DHCP Client//Option82 functionality
<b>Resiliency &amp; Protection</b>	ITU-T G.8031 linear and ITU-T G.8032 ring protection with switching time less than 50ms IEEE 802.1ax Link Aggregation
<b>Ethernet OAM</b>	IEEE 802.3ah Link OAM, IEEE 802.1ag end-to-end connectivity OAM and ITU-T Y.1731 end-to-end service and performance, SLA reporting
<b>Management</b>	Auto-Provisioning, plug&play, single IP for all the connected remote devices, end to end configuration Device management and VPN service management in Nview platform SLA Portal, monitor KPIs based on web
<b>SAT</b>	Service activation test using Y.1564 up to 8 stream, act as a generator or a reflector, RFC2544
<b>QoS</b>	Advanced QoS technology allows stream-marking based on CoS, DSCP, IP precedence and priority; scheduling modes including SP, WRR, SP+WRR; 0-15 WRED, flow-based mirroring/rate-limit/redirection/VLAN swapping and rewriting HCAR
<b>Clock</b>	Carrier-class EDD with support of SyncE for mobile backhaul applications
<b>Power Reliability</b>	Dual hot-swappable power supply, with voltage/temperature alarms

With the auto-provisioning functions and tool-kit, the series greatly reduces the complexity and costs for large-scale deployment or upgrade. Service verification and turn-up can be also done remotely and efficiently with Y.1564 test sets embedded with ISCOM RAX711(B). In compliance with the latest OAM standards including IEEE 802.3ah, IEEE 802.1ag and ITU-T Y.1731, the series allows cost-effective delivery of committed SLA end-to-end or end-to-core. KPIs including throughput, jitter, delay, packet loss and availability can be performed, reported and visualized on a per service basis.

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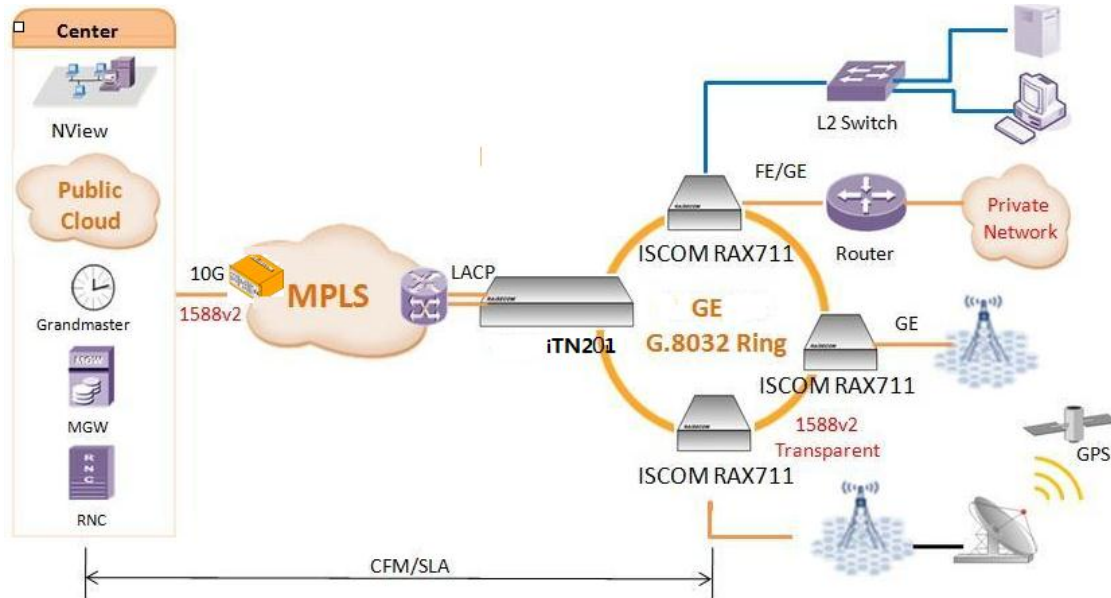
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## Application >>



### Large Enterprise, Small/Medium Business services Application

RAX711 can work against iTN8000/iTN2100 for Large Enterprise, Small/Medium Business services. Its huge capacity, service-based QoS and protection mechanism allow “cloud computing” applications, Imaging/video distributions, business data storage/recovery, Layer2-VPNs, etc. Meanwhile, such solution can guarantee Carrier-grade end-to-end SLA (hardware-based) performance monitoring for Ethernet jitter, frame delay and packet loss. Layer2/3 loopback will help for service throughput testing and troubleshooting.

### New Generation Mobile Backhaul Application

RAX711 is also a significant demarcation device for LTE Mobile Backhaul Networks with cost effective solution. It is easily deployed to transmit GE bandwidth to LTE eNodeB with sync Ethernet frame to guarantee the huge mobility data application as well as voice. Its ring/linear protection complied with G.8032/1 commits to switch over within 50ms and maximum uptime for eNodeB. CFM, Y.1731 will help to report the quality of service for each EVC and interoperate with other vendor’s aggregation devices.

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## Key Features >>

<b>Switching Mode</b>	Store and forward mode; Supports jumbo frame
<b>Ethernet</b>	MTU:12,288 byte Up to 32k MAC Support 4,094VLANs (C-tag), stacked VLANs (QinQ, S-tag) Layer 2 control protocol (L2CP) handling
<b>Synchronization</b>	ITU-T G.8262 Synchronous Ethernet
<b>IP Services</b>	DHCP client, option61 IPv4, Static management routing
<b>Traffic Management</b>	Service classification per port/VLAN/CoS(DSCP) Support SP, WRR and SP+WRR scheduling modes, and up to 8 queues per port MEF-compliant 3-color policing with color-aware and color-blind mode Bandwidth throttling per port/VLAN/CoS(DSCP), CIR/EIR per flow Support hierarchical bandwidth profile in the ingress direction
<b>Security</b>	ACL based on VLAN, CoS, MAC, EtherType, IPv4, IPv6, or user-define RADIUS, TACACS+ Storm control (broadcast, multicast, DLF)
<b>Reliability</b>	Link aggregation group (LAG) Interface backup ITU-T G.8031 Ethernet link protection switching (ELPS) and G.8032 Ethernet ring protection switching (ERPS) with the automatic protection switchover time less than 50ms Port/VLAN-based Ethernet local loop detection Fault propagation AC&DC dual-feed power supplies
<b>Ethernet OAM</b>	IEEE 802.3ah EFM-OAM link management IEEE 802.1ag connectivity fault management (CFM) with 3.3ms CCM resolution ITU-T Y.1731 performance monitoring (PM) Hardware-based frame delay (FD) measurement Y.1564 Hardware-based SLA KPIs per port or EVC, which include throughput, delay, jitter, packet loss and availability Dying gasp message in case of power failure
<b>Auto-Provisioning</b>	Auto-establishment of management tunnels across L2/L3 networks Easy generation and distribution of massive configuration files using GUI-based toolkit
<b>System Management</b>	Remote management via SNMP v1/v2/v3, Telnet and SSH v1/v2

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- Local management via console interface
- MEF 36 compliant MIB
- KeepAlive, RMON, LLDP, Syslog
- Port/VLAN/CoS-based statistics
- SFP digital diagnostic management (DDM)
- temperature and CPU monitoring
- Voltage and temperature monitoring
- Dual system

### Fault Propagation

- From line to client interface fault propagation (user configurable);
- Client interface fault propagation

### Specifications >>

<b>Performance</b>	Switching fabric: 8Gbps;
<b>Physical Interface</b>	Management port: 1 console (RJ45); 1 out band SNMP(RJ45) Client interfaces:4 x GE combo Network interfaces:2 x GE SFP
<b>Power Specs</b>	100/240V AC, -36 to -72V DC Full load: ≤25W
<b>User Conditions</b>	Operating temperature: -20~60°C ; Storage temperature: -25~70°C ; Humidity: 10~90% non-condensing
<b>Dimensions</b>	220(W)mm x 180(D)mm x 43.6(H)mm
<b>Weight</b>	≤ 1.8Kg

### Compliances >>

<b>Standards &amp; protocols</b>	IEEE802.3,802.3u IEEE802.3ad Link Aggregation IEEE802.1p,802.1Q VLAN IEEE802.1ad QinQ IEEE802.3ah OAM IEEE802.1ag CFM ITU-T Y.1731 Services OAM ITU-T G.8031 ELPS ITU-T G.8032 ERPS IGMP v1/v2/v3 SNMPv1/v2c/v3 CE certified ,UL RoHS compliance EMI Class A MEF6,8,9,10,11,13,14,16,17,20,31,36 CE2.0-certified ITU-T G.8262 NEBS Leve3
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### Ordering Information >>

RAX711-X

4GC combo interface, X could be any combination of AC and DC

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