



RAX711-C

10G Gigabit Ethernet Demarcation Device

Raisecom RAX711-C is an advanced 10GE demarcation device, incorporating high capacity in a compact size (1RU by 1/2 RU width) with 4*10G SFP+ ports and 12 1G SFP ports.

As the demand for bandwidth increases, but revenue streams stay flat, service providers want to differentiate the services and provide a proper QoE for various application requirements.

MEF CE2.0 and SLA Portal are available in RAX711-C and 256 Y1731 monitoring sessions or 512 TWAMP monitoring sessions are enough for business SLA monitoring.

RAX711-C is also a better access solution in MBH application and it supports IEEE1588v2 TC and SyncE features.



RAX711-C-AC_DC

Highlights >>

Network Security	Upgraded security with port-isolation, basic ACL, broadcast/multicast/DLF storm control, unique port loopback detection, and DHCP Client/Option82 functionality
Resiliency & Protection	ITU-T G.8031 linear and ITU-T G.8032 ring protection with switching time less than 50ms IEEE 802.1ax Link Aggregation
Ethernet OAM	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
Management	Auto provisioning based on standard DHCP server and TFTP server, plug&play, single IP for all the connected remote devices, end to end configuration Device management and VPN service management in Nview management platform
SAT	Service activation test using Y.1564 up to 8 stream, act as a generator or a reflector Service activation test using RFC2544, act as a generator or a reflector Bidirectional asymmetric bandwidth measurement based Nview management platform Support 10G service activation test
HQoS	Advanced QoS technology allows stream-marking based on CoS, DSCP, IP precedence and priority; scheduling modes including SP, WRR, SP+WRR; WRED, flow-based mirroring/rate-limit/redirection/VLAN swapping and rewriting Support HQoS, support user-group level\vlan-level\cos-level policy
Clock	IEEE1588 V2 TC syncE
Power Reliability	Dual power supply, with voltage/temperature alarms
TWAMP-Light	Standard IP SLA measurement, include generator and reflector, 512 sessions concurrency
SLA Portal	B/S architecture, SLA TWAMP KPIs monitor(include FD, FDV, FLR, availability, bandwidth, bandwidth utilization) 1s performance KPIs CSV format file saving
E2E Provisioning	Standard MEF40 architecture, include bandwidth/performance/cosable profile GUI, standard service modules(ELINE, ELAN, ETREE), and End-to-End configuration based on service

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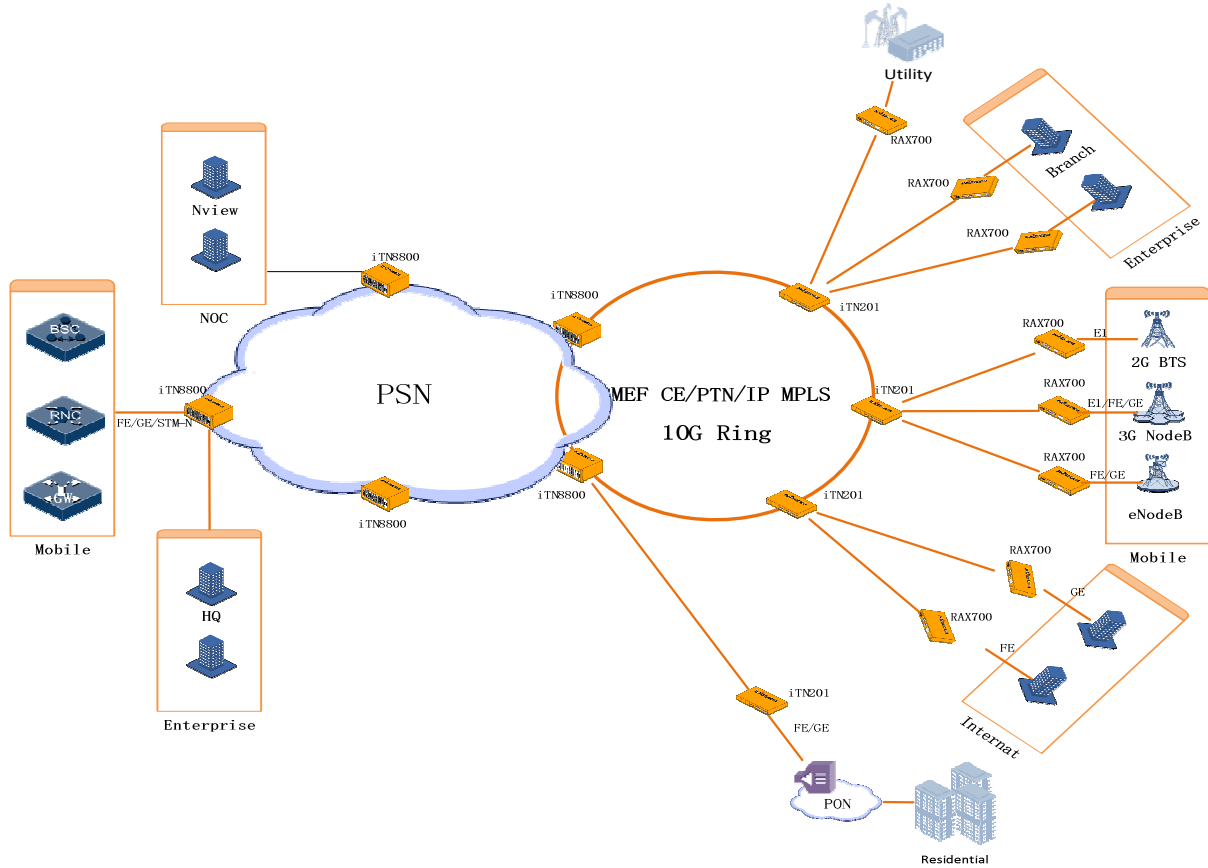
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Application >>



Large Enterprise, Small/Medium Business services Application

RAX711-C can work against iTN8000 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. RAX711-C can supply the MEF CE service.

New Generation Mobile Backhaul Application

RAX711-C 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 >>

Switching Mode	Store and forward mode Supports jumbo frame
Ethernet	Supports jumbo frame:12288 bytes Up to 32k MAC Support 4,094VLANs (C-tag), stacked VLANs (QinQ, S-tag) Layer 2 loopback on single and multiple flows Layer 2 control protocol (L2CP) handling MAC Security Protection
Synchronization	ITU-T G.8262 Synchronous Ethernet
IP Services	DHCP client, option 17,61,66,67,82,150 IPv4, Static management routing
Traffic Management	Service classification per port/VLAN/CoS(DSCP)/IP Precedence 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 HQoS
Security	ACL based on VLAN, CoS, MAC, EtherType, IPv4, IPv6, or user-define RADIUS, TACACS+ Storm control (broadcast, multicast, DLF) Double system in the device
Reliability	Link aggregation group (LAG) Interface backup xSTP (Spanning Tree Protocol) 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 power supplies From line to client interface fault propagation (user configurable); Client interface fault propagation(MEF CE, MPLS TP network)
Ethernet OAM	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 10G Y.1564 TWMAP-Light

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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

Auto-Provisioning

Auto-establishment of management tunnels across L2/L3 networks
Easy generation and distribution of massive configuration files using GUI-based toolkit

System Management

Remote management via SNMP v1/v2/v3, Telnet and SSH v1/v2
Local management via console interface
MEF 36 compliant MIB
KeepAlive, RMON, LLDP, Syslog
Port/VLAN/CoS-based statistics
SFP digital diagnostic management (DDM)
CPU monitoring
Voltage and temperature monitoring

CLOCK

IEEE1588 v2 TC

Multicast

L2 static multicast address management
IGMP Snooping IGMP Proxy
MVR (Multicast VLAN Registration)

Specifications >>

Performance	Switching fabric: 52Gbps;
Physical Interface	Management port: 1 console (USB); 1 out band SNMP(RJ45) Client interfaces:12 x G SFP Network interfaces:4 x 10G SFP+
Power Specs	100/240V AC, -36 to -72V DC Full load: ≤40W
User Conditions	Operating temperature: -20~65°C ; -40~65°C with DC Power Storage temperature: -25~70°C ; Humidity: 10~90% non-condensing
Dimensions	220(W)mm x 266(D)mm x 44(H)mm

Compliances >>

Standards & Protocols	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 SNMPv1/v2c/v3 CE compliance ,UL RoHS compliance EMI Class A MEF6,8,9,10,11,13,14,16,17,20,31,36 MEF CE2.0- Certification ITU-T G.8262
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Ordering Information >>

RAX711-C-X

X = dual redundant power - AC and/ or DC

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