X-LINK SERIES

RL-XRT5227-8P-E Datasheet

The RL-XRT5227-8P-E is independently researched and developed by SUNDRAY, it has excellent performance and integrates user authentication, internet access management, flow control, internet access activity analysis, firewall and internet management. etc. The RL-XRT5227-8P-E Router can manage and power SUNDRAY X-XLINK AP, has the following functions such as the seamless L2/L3 roaming, intelligent RF adjustment, user access control, flexible QoS control, optimization of the wireless protocol, the wired and wireless integration, suitable for networks with 600 concurrent users or devices.

The RL-XRT5227-8P-E supports APP Configuration to have an instant setup. The RL-XRT5227-8P-E's management is also much easier, there are two mode, User Modes and Expert Mode, common network functions are presented in user mode, advanced configuration functions in expert mode.

SUNDRAY RL-XRT5227-8P-E

◆ Instant Deployment

APP Remote Setup

RL-XRT5227-8P-E supports deployment through APP, change configuration through APP, and share the configuration to the person who is on the site. through simple operation to achieve instant project acceptance. Effectively improve the work efficiency of technical engineers and rapid setup of multi-branch projects

Zero Touch Provisioning and Auto Registration of AP

Provides the centralized management function of APs. In order to improve the usability of customers and facilitate deployment, the registration parameters of AP are configured by default. As long as the AP is powered on and be connected to the network with security gateway, the AP can automatically register to XMG3200 and provide wireless services without any additional configuration, greatly improving the efficiency of deployment.

Minimal Web UI management

The controller provides a friendly Web management interface to performs unified management and control of all APs and network operation and maintenance. It has user mode and expert mode. Common network functions are presented in user mode, advanced configuration functions in expert mode configuration..

◆ Secure Network Access

User Authentication Service

Support built-in portal service, authentications methods like 802.1X, Portal, PSK, OPEN, two-factor security authentication. etc.

Internet Activity Management Service

RL-XRT5227-8P-E has built-in application and URL recognition library, which can accurately identify a variety of mobile and PC daily mainstream applications. Combining with the DIY application, factors such as location, time period, etc. RL-XRT5227-8P-E assign different Internet access rights strategies.

Unified management of wired network

The RL-XRT5227-8P-E supports unified management of user on the wired LAN network, such as authentication, traffic management, application management, authority management, one-stop service, greatly reducing network construction costs, operation and maintenance management cost.

Outstanding Performance

L2/L3 Seamless Roaming

The RL-XRT5227-8P-E supports layer 2 and layer 3 seamless and unconscious roaming, and the roaming domain is not restricted by the subnet. In addition, it can automatically adjust the working signal and transmission frequency of the wireless access point, and support load balancing between access points, which is effective improve bandwidth utilization. Innovative use of time fairness algorithm allows terminals with different negotiation rates to occupy the same wireless information time to improve users' online experience.

Smooth Experience of Key Service

The RL-XRT5227-8P-E can have the flow control policy based on application, user, time, etc. to maximize the value of bandwidth. Combine the built-in flow control policy library to match application permissions to ensure the bandwidth for key services. Through years of accumulated DPI traffic identification technology, in-depth analysis of message learning, RL-XRT5227-8P-E can help to improve work efficiency and ensure the smooth experience of core key businesses.

More Reliable Multi-Service Security Gateway

The RL-XRT5227-8P-E is positioned as a router for small and medium-sized enterprises and branches. It integrates dual functions of gateway and AC. It adopts multiple WAN port design, supports PPPOE, NAT gateway function, dynamic IP address, static IP address setting function, unified management of XAP. It adopts a new design architecture and multiple technical means to ensure the secure and reliable continuous operation

3 **Technical Specifications**

Hardware Specifications

Specifications of X-LINK Multiple-service Gateway RL-XRT5227-8P-E	
Item	Description
Port number	27 x Gigabit Ethernet port (3*WAN port, 23*LAN port, 1 LAN/WAN ports), 8 of the ports support POE out 1 RJ54 Console port
Dimensions L*W*H, unit: mm	440*207*44
Weight	2.537 kg
Power consumption	<122w
POE budget	110W
POE standard	IEEE 802.3af/at
Power	100V ~ 240V AC；50/60Hz,
Operating/storage temperature:	0℃ ~ 45℃/-40℃ ~ 70℃
Operating/storage humidity:	10% ~ 90% (non-condensation/5% ~ 90% (non-condensation)

Software Specifications

| Item		Description
Basic capability	Maximum AP	150
	AP License step	1
	802.11 protocol	Support 802.11a/b/g/n/ac/Wave2/ax/e/i/h/ k/v...
	VAP/Chinese/ hidden SSID	Support
	Online user checking	Support
	Passive wireless user logs off	Support
	Non-traffic user aging	Support
	Routing	Support
	Concurrent user	≤600
	Account number	≤1000
Gateway setting	DHCP、Static IP、PPPoE	Support
	PPPoE Status and detail display	Support
	MTU setting	Support
	Default VLAN	Support
	Subnet adding and delete	Support
	Default VLAN1 can't be delated	Support
	Up to 8 local subnets	Support
	DHCP service for local subnet	Support
	Dual WAN	Support
	Port with VLAN mode	Support
	Gateway deployment	Support
	Signal-arm deployment	Support
	Link aggregation/link detection/ ARP agent	Support
	DHCP/ NAT/ IPv6	Support
	Routing	Support static routing, policy-based routing, and DNS agent
	Layer3 interface physical detection	Support
	VLAN id assignment on port	Support
	Portal Service	Supports intelligent identification of terminal types, pushes appropriate terminal size pages for different terminals, supports custom page logos, display information, etc., and avoids repeated authentication within 2 hours.
	Reboot	Manual reboot
Wireless characters	Auto or manual adjustment for channel and power strength	Support

Item		Description
Wireless characters	AP reboot	Support timing reboot
	AP load balance and 5G priority	Support
	Wireless coverage dead spot detection compensation and spectrum analysis	Support
	Intelligent broadcast /multicast/high-density access scenario optimization	Support
	Time fair scheduling	Support
	Roaming optimization of the second and third layer	Support
	AP discovery method	Support layer2/3 discovery, DHCP option 43, domain
	AP remote deployment/group management/dynamic addressing	Support
	AP and gateway tunnel encryption	Support
Authentication	Static black/white list and dynamic blacklist	Support
	Local account	Support 802.1x、Portal
	802.1x	Support 802.1x non-aware authentication
	WPA-PSK/WPA2-PSK	Support
	Porta account	Support
	Web authentication page customization/built-in authentication page template	Support
	Terminal adaptation (size/language)	Support
	Support editing page text	Support
	Support editing term of use	Support
	Redirection after authentication	Support
Access controller policies	Application/URL recognition and control	Support 300+ application, and 1000+ URL
	User authorization/role assignment/access control	Support account/ location/time…
	Automatic VLAN grouping based on attributes	Support
	ACL	Support
	Unified wired and wireless management	Support
	Internet and intranet bandwidth management	Support
	Allocate bandwidth based on different factors	Support Role (account, location)/time/application…
	QOS	Support
	Intranet wireless air interface	Support
	802.11e/WMM	Support

Item		Description
Access controller policies	End to end QoS service	Support
	IPSec VPN	Support
Audit (Optional)	Web page audit/network application /email/posting /FTP/TELNET/audit-free strategy	Support
	Network monitoring platform integration	Support
Security	Spoofing/scanning/flooding attack defense, smart port security	Support
	Support adding trusted DHCP server	Support
	Support wired and wireless ARP defense	Support
	Support for adding trusted gateways	Support
	User isolation supports MAC whitelist	Support
	Support user's communication within specific VLAN	Support
	Support setting the blacklist time	Support
	Support ARP scanning defense	Support
	Support IP scanning defense	Support
	Support port scanning defense	Support
	Support wireless DoS defense	Support
	Support wireless flooding attack detection	Support
	EAP type	Support EAP-PEA, EAP-MD5, EAP-MSCHAPv2
	Data encryption	Support
Cluster (Optional)	Gateway cluster management/virtualization/license sharing	Support
	Support gateway's centralized management	Support
	Support backup gateway settings file	Support
	Support cloud discovery	Support
	Hierarchical administrator	Support
Management	Multilingual management and management methods	Support WEB, CLI, Telnet, SSH. Etc.
	Status display/alarm	Support
	User trend/application traffic display/traffic history checking	Support
	Firmware upgrade/backup configuration and backup recovery	Support
	DDNS dynamic domain name	Support PubYun

Model	Specifications	Remarks
SUNDRAY X-LINK Router RL-XRT5227-8P-E		
RL-XRT5227-8P-E	X-LINK Router, 27 x Gigabit Ethernet port （3*WAN port， 23*LAN port， 1 LAN/WAN ports), 8 of the ports support POE out, POE budget 110W, can manage up to 150 APs, and 600 concurrent.,. support authentication, access control, audit, basic firewall.	Essential

Reference Topology
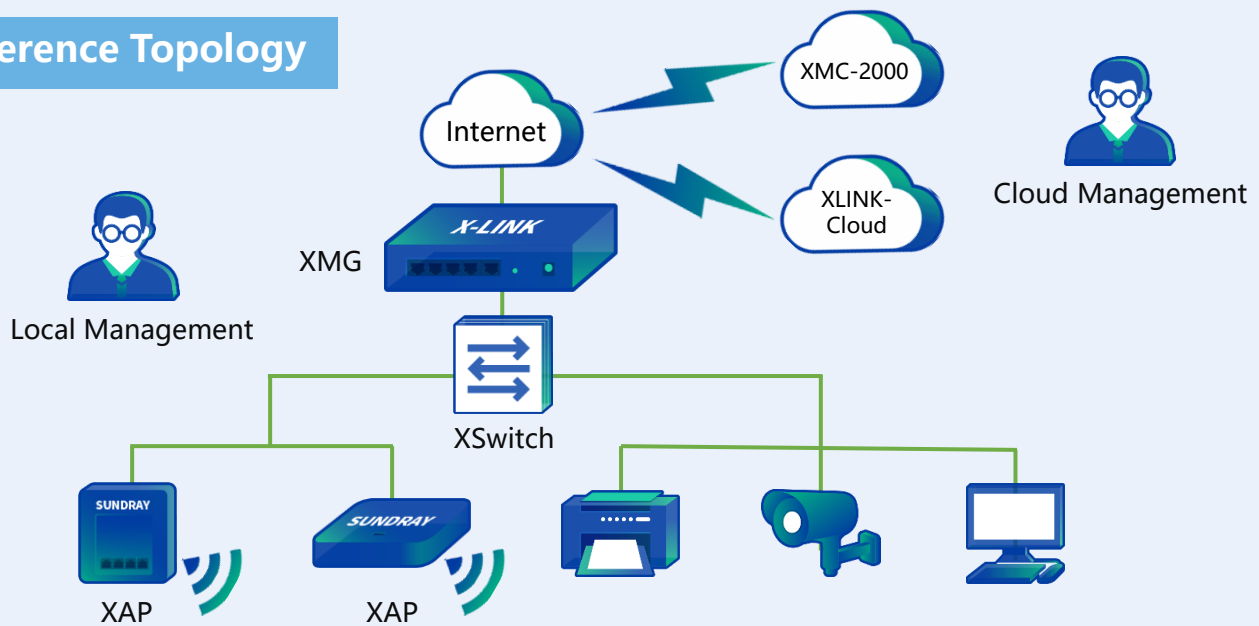
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