

## Introduction to DR-3000



### CenOS5.0 Access Controller with VPN Gateway

# Contents

Product Overview	3
Advanced Features	4
Product Advantage	7
Product Application	8
Hardware Overview	15
HotSpot Account Control POS Series	17
HotSpot application with POS system	18
What we do	20
Contact Information	21

#### AP Controller

# Product Overview-



### CERIO's DR-3000 CenOS5.0 System Access Controller is

designed for applications in which a compact, costeffective" **all-in-one**" networking solution is required. CERIO AP Controllers included **4 Ethernet Port**, AP controller in a desktop-mount enclosure.

This device centralized configuration and management model enables the controllers to be **deployed**, **monitored**, and **controlled** without local IT staff. The controller is a full-featured Wireless LAN Giga Ethernet security controller that **aggregates up to 60/128 access points (APs), built-in 5000 local accounts /5000 ondemand accounts** and delivers centralized control and security for wireless deployments.

#### AP Controller

# -Advanced Features——CERIO

### Access Controller

- Full-featured Wireless LAN Giga Ethernet security controller
  - ✓ DR-3000 Max up to 60/128 access points
- Provide Local Account up to 5000 accounts

### **Centralized AP Management / Control**

- AP Group management –maintain a set of setting templates that simplify the task to assign the same setting to multiple
- > AP-Automatic configuration and provisioning
- Automatic Channel Assignment and power setting for controlled Aps
- Provides MAC address Control list of client stations for each managed Aps
- Provide centralized remote management via HTTP/SNMP interface
- Support Roaming Intra-Switch , Inter-band , Inter-Switch



#### AC Controller

# **Advanced Features**



### **AP Monitoring**

- Monitor AP Status
- The number of associated clients to the AP
- Load balancing based on number of users and utilization
- AP User Statistic –Maintain all wireless clients connection history and depict statics in diagrams

### **Radio Management**

- Automatic Channel Assignment and power setting for controlled APs
- Supports multiple BSSID up to 8 per Radio

### **Bandwidth Management**

- IEEE802.11p Class of Service/Quality of Service (CoS /QoS)
- IEEE802.11e Wi-Fi Multimedia (WMM)
- Upload and Download Traffic Management



#### AC Controller

# Advanced Features —



### Wireless Security / Encryption

- > WPA / WPA2 personal and enterprise
- ➢ IEEE802.1X network login user authentication (EAP-MD5/TLS/TTLs)
- > RADIUS server authentication (RFC2618)

### **Authentication**

Single sign-on (SSO) client with authentication integrated into the local authentication environment through local/domain, LDAP(AD), PoP3, RADIUS, 802.1x and Guest

### **Authorization**

Authorization : access control to network resource such as protected network with intranet, internet, bandwidth, VPN, and full stateful packet

### Accounting

- Provides billing plans for pre-setting / on-demand accounts
- Support local on-demand and external RADIUS server
- Contain 10 configurable billing plans for on-demand accounts

#### AC Controller

# Product Advantage



### Easy

Supports user-friendly interface, simple and convenient, avoid the complex setting process so that users can quickly and easily complete settings.

### Security

Supports user-friendly interface, simple and convenient, avoid the complex setting process so that users can quickly and easily complete settings.

### **Stable**

Supports Protocols Traffic Management to maintain the equipment under best condition for long time operation.

### Reliable

The equipment provides high stability and reliability with a complete management function, administer do not need to worry about equipment anomalies

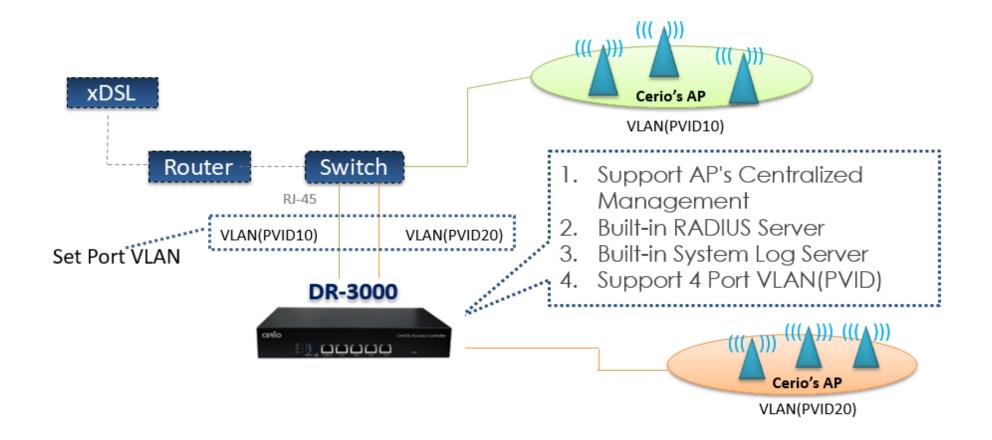
## **Control Mode Application**



### 1. Control Mode

AC Controller

Through DR-3000 **Control Mode**, all CERIO's Managed Access Points are managed through a unified Web interface. It can manage up to **128** unit access points.



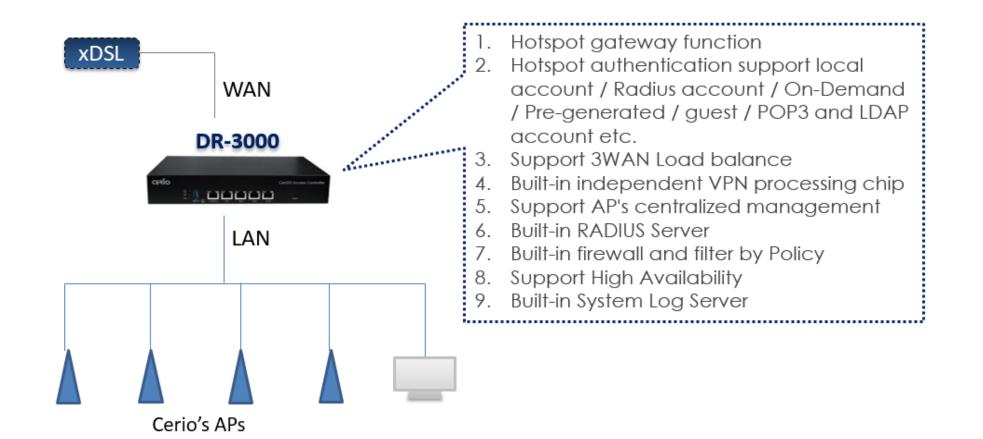
## **Router Mode Application**



### 2. Router Mode

AC Controller

If you don't have a Router / Firewall device in your environment, but you want to build a web hotspot application, you can use DR-3000 set at **Router Mode** to meet requirements.

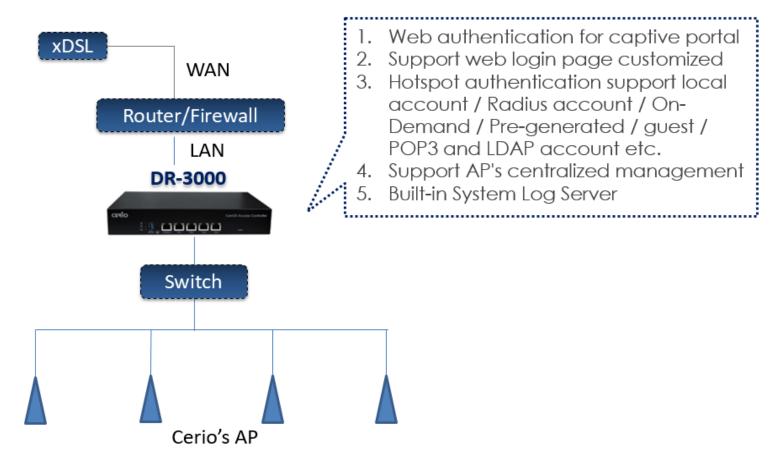


## **Captive Portal Mode Application**

### 3. Captive Portal Mode

AC Controller

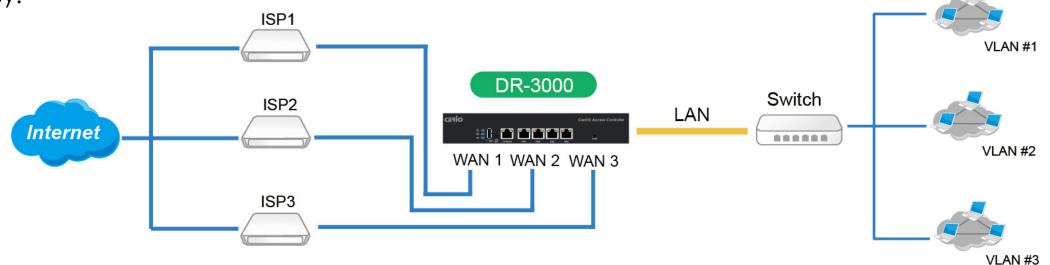
If you already have a Router / Firewall device in your environment, but you want to build a web hotspot application, you can use DR-3000 set at **Captive Portal Mode** after Router / Firewall device to meet requirements.



## **3WAN + 1LAN Application ——CER**

### Multi-WAN Support Outbound Load-Balancing

With real-time load balancing and Optimum Route algorithm, DR-3000 intelligent router engine directs each session or connection to the best available link. It also supports policy-based routing, persistent routing, and traffic scheduling to effectively adapt your business policy into your network policy.



✓ Outbound Load Balancing

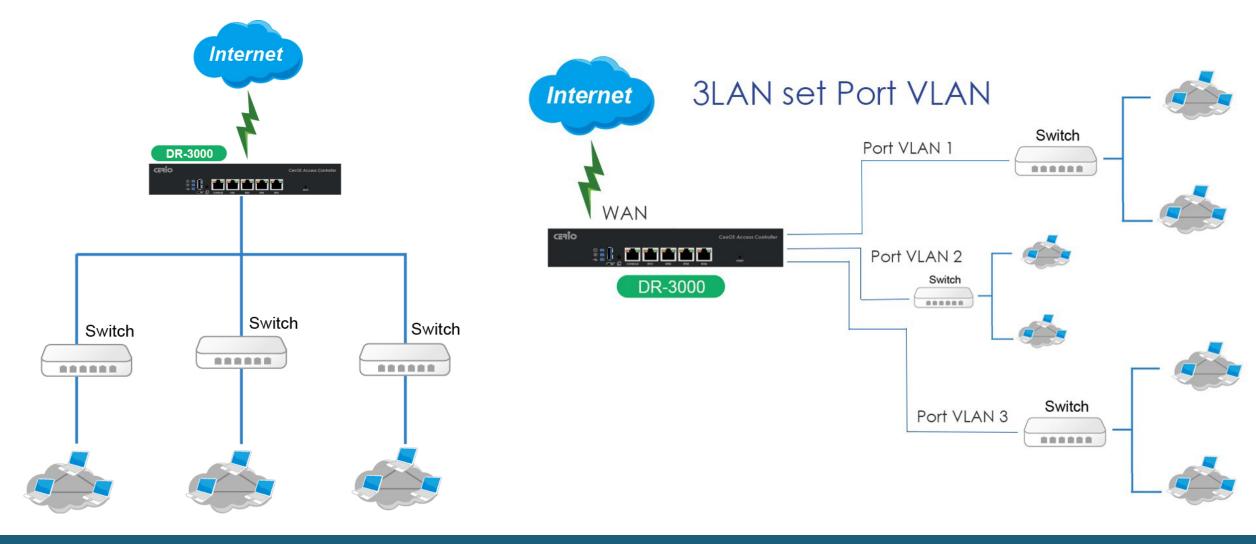
AC Controller

- $\checkmark$  Load Balancing support assign weight, line speed weight and WAN by priority
- $\checkmark~$  The LAN port also support Tag VLAN function



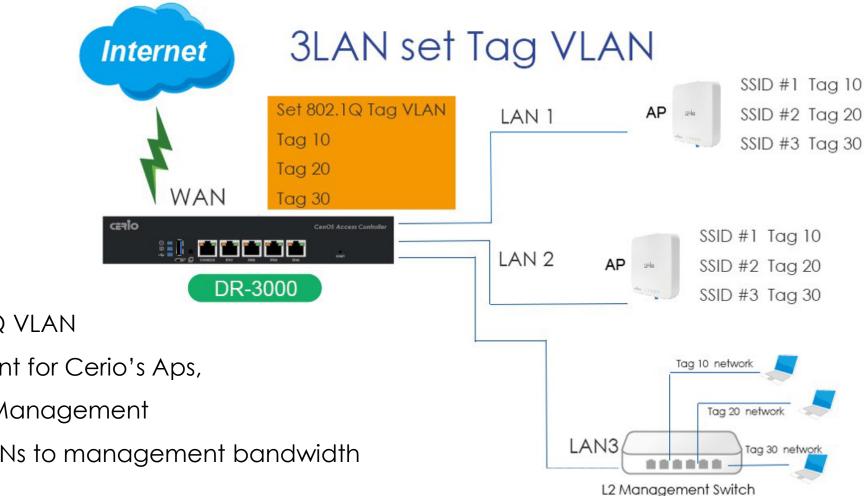
### ① 1WAN + 3LAN AP Management

**(2) 1WAN + 3LAN Port VLAN Application** 





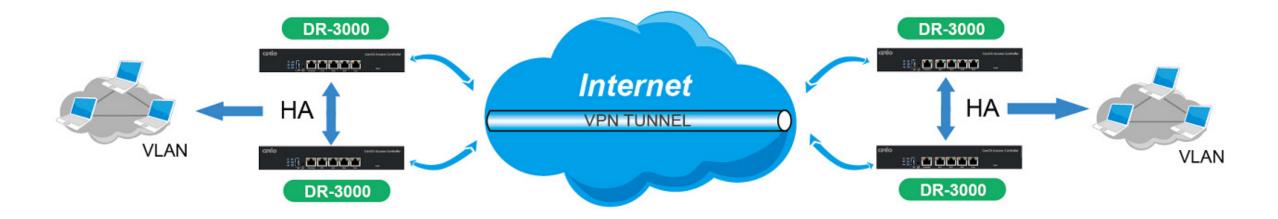
### **③ 1WAN + 3LAN Tag VLAN Application**



- Build-in up to 8 of 802.1Q VLAN  $\checkmark$
- Centralized Management for Cerio's Aps,  $\checkmark$
- Support Multi-VLAN AP Management  $\checkmark$
- Configuring QoS on VLANs to management bandwidth  $\checkmark$

# AC Controller VPN Tunnel & HA (High Availability) ----CERIO

CERIO's DR-3000 **Multifunction VPN Router** is an **easy-to-use**, **flexible**, **high-performance** device well suited for small businesses. Now with web filtering, the new DR-3000 delivers highly secure, broadband, wired connectivity to small offices and remote employees. It can also be used either as a standalone router for flexible deployments, offering investment protection as your business needs evolve.

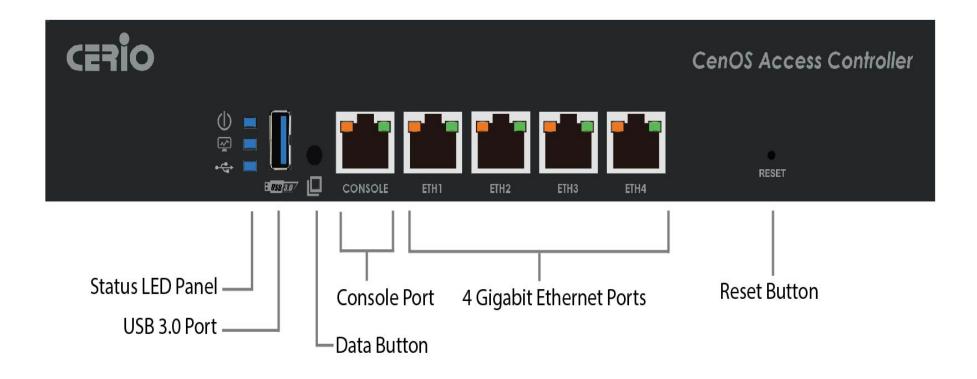


Support **HA(High Amiability)** function makes the hardware and software components that provide redundancy and reliability for network communications.

#### AP Controller

# Hardware Overview — CERIO

- ✓ Support system data backup and recovery in USB 3.0 interface
- ✓ Support Console Port management, administrator can connection console port to maintain system.
- $\checkmark$  Support hardware reset to default button.



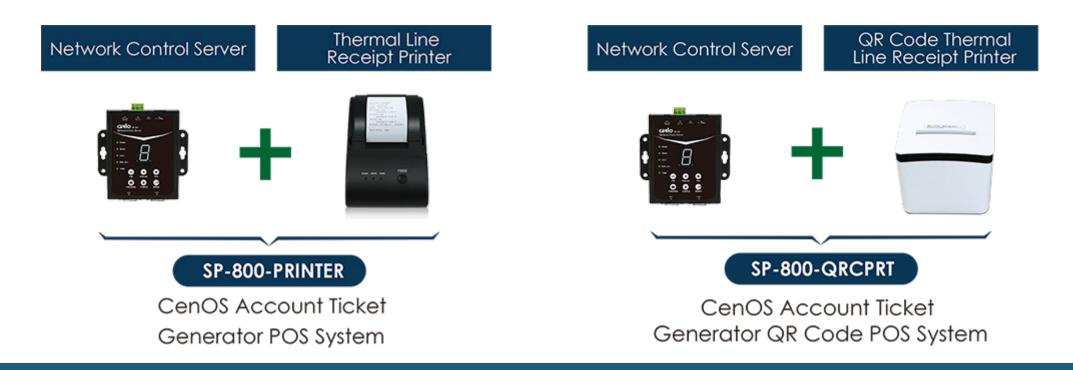
# CenOS Account Ticket Generator

CERIO

## HotSpot Account Control POS Series -----

ÍO

**CERIO CenOS Account Ticket Generator** kits containing a Thermal Printer and Network Control Server provides instant ticketing for users, CenOS Account Ticket Generator kits is designed for ease of use account generation via Network Control Server from the built-in On-Demand billing plan from CERIO CenOS Access Controller and then prints the account ticket via **Thermal Printer** or **QR Code Thermal Printer** for wireless Internet access in public locations ranging from places **such as airports, hotels, conventions, and coffee shops, Hotspot application.** 

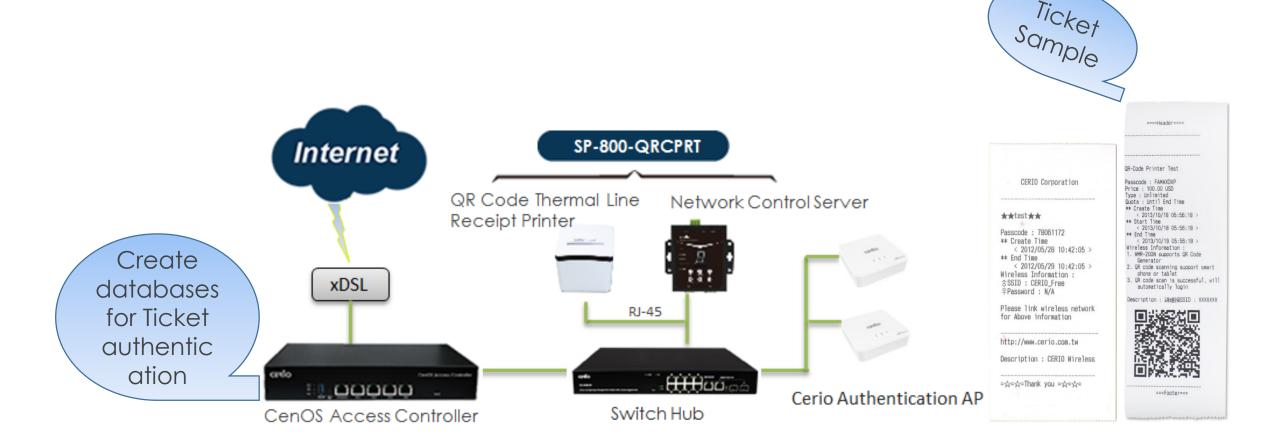


## HotSpot Application with POS System

**— CERÍO** 

**DR-3000** built-in log databases, system can storage space account information of the session/ authentication and Support E-mail notification.

Controller



## HotSpot Application with POS System ---- CERIO

#### 

**Customized Login Page** 

#### Customize through HTML Code

📰 Page Setup			
	Template	○ Enable	Disable
Mu	Iltiple Language	Enable	○ Disable
Customize HTML So	irce code		
<script sro<br=""></head> <body></td><th>spot</title> ;="/javascripts/login.js" c ="container"></div></th><th>harset="utf-8" type="text/javascript"></script> <th></th>			
	Preview	Preview	

🔳 Authenti	cation Log List							
#	Event Time	AP IP	VLAN ID	Username	User IP	User MAC	Event	
1	2015-01-01 08:01:39	192.168.2.254	0	test	192.168.2.10	8c:4d:ea:02:c6:ec	LOGIN	
2	2016-11-21 12:56:50	192.168.2.254	0	danny	192.168.2.10	8c:4d:ea:02:c6:ec	LOGIN uthantication Loc	a Lici
3	2016-11-21 12:57:28	192.168.2.254	0	danny	192.168.2.10	8c:4d:ea:02:c6:ec	uthentication Log	J LISI
4	2016-11-21 12:57:37	192.168.2.254	0	test	192.168.2.10	8c:4d:ea:02:c6:ec	LOGIN	
5	2016-11-21 13:02:22	192.168.2.254	0	danny	192.168.2.10	8c:4d:ea:02:c6:ec	LOGIN	

# What we do

### Innovation & Design

Our R&D team continues to incorporate the newest wireless protocols and features to make our products perfect for enterprise deployment.



### Wireless Solutions

Our Field Application Engineers and Specialists have unparalleled experience providing the perfect solution for any wireless projects (e.g. Hotels, Long Distance PTP Backhaul, Universities)



### Software Development & Design

Our software provides a high featured and easily operated User Interface and also supports centralized AP Management for convenient device deployment.



Outstanding Customer Service CERIO's customer service staff are experts on our products and possess clear and patient communication skills.

www.cerio.com.tw

## **Contact Information**



## **CERIO** Corporation

4F.-3., No.192, Sec. 2, Zhongxing Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.) Telephone : +(886) 02-8911-6160

Fax : +(886) 02-8911-6180





### www.cerio.com.tw



issales@cerio.com.tw



www.facebook.com/center.ww



www.linkedin.com/company/cerio-corpartion



www.youtube.com/channel/UCejUL-o3rQavyltXEEMyK1A

