



— DSA-3100

## Wireless Service Gateway

The DSA-3100 Wireless Service Gateway is a Network Access Control System (NACS) that manages intelligent AAA (authentication, authorization and accounting) for all wired and wireless network users. This security device coordinates ISO Layer 2, 3, 4 operations to provide your network with comprehensive functions, including IP plug and play, station isolation, traffic management and accounting, and network policy enforcement.

### Network Access Security

The DSA-3100 Wireless Service Gateway provides you with a comfortable and secure way to give entrusted computers access to your LAN/WAN. The system guarantees that only registered users are able to use network resources.

### AAA Function Execution

The DSA-3100 carries out authentication, authorization and accounting (AAA), three basic issues that are encountered frequently in many network services. Examples of these services are dial in access to the Internet, electronic commerce, Internet printing, and Mobile IP. Authentication acts to verify and identify so authorization can be granted to access a resource. Accounting collects resource consumption data for the purposes of trend analysis, and capacity planning, billing, auditing, and cost allocation.

### Can Be Used on Commercial Network

The DSA-3100 can also be installed in a commercial network providing services to public. Authentication is needed to make sure that the user of the service is who he claims to be. This is quite important, because you don't want someone else using the service you have paid for. After the user has been authenticated we need a way to ensure that the user is authorized to do the things he is requesting. For example, if you are a normal user you don't have the permissions to access all the files in a file system. Usually authorization is provided by using access control lists or policies. Accounting collects information of the network usage for billing, capacity planning and other purposes.

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### Key Features

- 3 10/100Mbps Fast Ethernet ports for WAN connection, trusted LAN connection and untrusted LAN connection
- Manages up to 250 user account data with internal user account database
- Supports up to 50 on-line users
- ID/Password based authentication and authorization
- POP3, RADIUS and LDAP external authentication mechanism
- On-line status monitoring and history traffic data review
- SSL protected access to the administration interface and user authentication interface
- Customizable user login, logout web interface
- Customizable user logout timer
- Customizable target URL
- Built-in DHCP server
- High-speed policy routing engine
- Customizable preemptory traffic redirection
- NTP client

# DSA-3100

## Technical Specifications

## Wireless Service Gateway

### Functions Provided

Manages up to 250 user account data with internal user account database

Supports up to 50 on-line users

#### ID/Password based authentication and authorization

- Can be combined with MAC address locking to provide stricter access control

#### POP3, RADIUS and LDAP external authentication mechanism support

- Only one of these can be selected at a time

On-line status monitoring and history traffic data review

SSL protected access to the administration interface and user authentication interface

Customizable user login & logout web interface

Customizable user logout timer

Customizable target URL for users who successfully get authorization

Console mode administration interface via serial console port

#### Display of text messages on login page

- Administrator can use the administration interface to input texts  
- Network users can see the text in the DSA-3100 web-based login page

NAT support for managed clients

Static IP, DHCP client and PPPoE client on WAN interface

Built-in DHCP server to service managed clients

Built-in high-speed policy routing engine

Customizable preemptory traffic redirection (IP and Port Redirect)

Built-in NTP client

#### Local network port for connecting a trusted network

- Permits access to WAN, and LAN from local network without authentication  
- Permits connection to wired Ethernet while connecting the wireless network to this Ethernet port

### Hardware

#### CPU

NS GX-1 300 MHz

#### Memory

SDRAM 32 MB

#### Device Ports

- WAN port: 10/100Mbps Fast Ethernet  
- LAN port: 10/100Mbps Fast Ethernet connects to workstations & servers that do not need authentication  
- LAN port: 10/100Mbps Fast Ethernet connects to workstations & devices that need authentication  
- Console port: RS-232 (default set to 115200, n, 8, 1, no flow control)

### Physical & Environmental

#### Power Supply

External power adapter

#### Power Input

DC 5V/3A

#### Dimensions

45 mm (H) x 163 mm (D) x 215 mm (W)

#### Operating Temperature

0° - 50°C

#### Storage Temperature

-25° - 55° C

#### EMI Certification

- FCC Class A  
- CE Class A  
- VCCI Class A  
- C-Tick

#### Safety

- UL  
- CSA  
- TUV/GS  
- T-Mark



ACN 052 202 838

## Ordering Information

#### DSA-3100

Wireless Service Gateway

Please specify your order as follows:

**DSA-3100/A** with US standard power adapter  
**DSA-3100/B** with UK standard power adapter  
**DSA-3100/E** with EU standard power adapter  
**DSA-3100/CN** with China standard power adapter (China packaging)  
**DSA-3100/N** with Australia standard power adapter  
**DSA-3100/U** no power adapter



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