

Multi-service Converged Gateway

# BIG2000-530



Varied Service  
Characteristics Versatile  
IPv6 Solution Complete  
Security Mechanism



Carrier-Level High  
Reliability  
Layer-3 Routing  
Functions



Routing+Switching  
+AC+Firewall  
All-in-one



Multi-giga WAN  
capacity

It also supports wireless management, user authentication, network security, cloud management and other value-added service modules, which is an ideal choice for all kinds of enterprise users to form networks.

## Product Overview

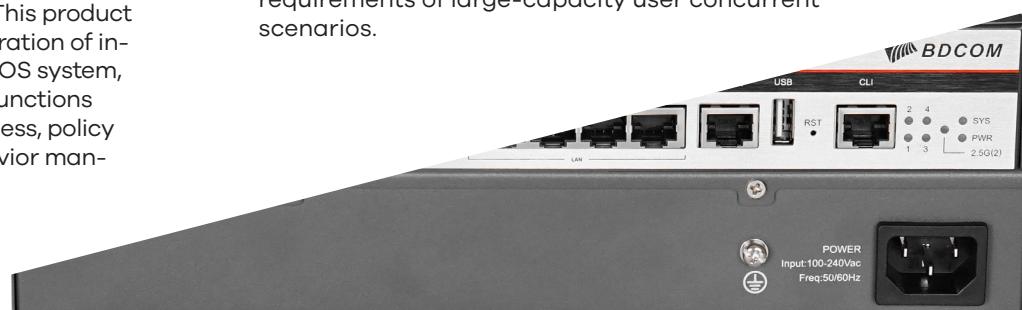
BDCOM BIG2000-530 is a multi - service converged gateway product specially designed and developed by BDCOM after in-depth research on the Internet access needs of typical ICT scenarios such as enterprises, parks, hotels, schools, hospitals, and chains.

BIG2000-530 is designed based on ARM multi-core processor and 10G non-blocking switching platform, and developed with the concept of separation of control and forwarding planes, which can provide high-performance and high-efficiency product experience. This product is equipped with BDCOM's new generation of independent intellectual property BDROS system, which provides users with practical functions such as NAT high-speed Internet access, policy routing, QoS flow control, users'behavior management, etc.

## Product Characteristics

### Powerful processing performance

The BIG2000 series is built with a high-performance processor based on a 64-bit ARM architecture , which can provide a maximum throughput of 10Gbps. It is equipped with a new generation of BDROS network operating system, which supports the separation of forwarding and control planes, ensuring a robust kernel while improving forwarding efficiency, meeting the massive data throughput requirements of large-capacity user concurrent scenarios.



# Product Characteristics

## Excellent reliability

The BIG2000 series converged gateways support hot standby, link backup, power supply and other key component redundancy features, providing users with carrier-level reliability assurance.

Provides 6KV lightning and surge protection for Ethernet ports and power supplies; supports temperature and fan monitoring and active alarm capabilities. Supports dual Flash independent storage design, which can quickly recovery from "bricked" due to users'misoperation or other extreme situations, greatly reducing the impact of abnormal network interruptions and greatly improving the feasibility of remote operation and maintenance.

## A useful collection of features

In addition to network interconnection and Internet access, BIG2000 also provides a large number of practical features that can meet diverse management needs with fewer devices.

Supports integrated design of routing, switching, wireless controller and security, reduces the number of network elements, and reduces topology complexity and TCO costs.

It supports simultaneous access of multiple lines and provides load balancing strategies in various modes such as backup, overlay, and intelligence to fully improve the utilization rate of bandwidth resources.

Supports QoS queue and flexible rate-limit technology to ensure the reasonable allocation of precious bandwidth resources in multi-user concurrent scenarios.

Supports DPI deep application identification to ensure smooth operation of key businesses and prohibition of unauthorized businesses, thereby improving users' network security and operational efficiency.

It supports wireless controller and Portal authentication functions, supports centralized management of APs and seamless roaming, realizes wired and wireless integration, and contributes to the full integration and centralized management of enterprise office networks.

Built-in practical firewall functions and anti-attack modules ensure safe network operation.

## Flexible wide area networking

The BIG2000 series supports multiple deployment modes such as routing, gateway and transparent bridge.

It supports multiple VPN technologies such as L2TP/ PPTP, GRE , IPSec , SSL , etc. , and can provide users with a secure, controllable and cost-effective solution for remote branch networking.

Supports IPv6 protocol, supports IPv6/v4 dual stack, 6to4 tunnel, translation and other working modes to ensure IPv4/v6 transition networking.

Supports static routing, PBR policy routing, RIP , RIPng, OSPF, OSPFv3, BGP , BGP+, ISIS dynamic routing, etc. It has a rich routing protocol that can meet the networking needs of various complex WAN scenarios and is perfectly compatible with the equipment of mainstream manufacturers in the industry.

Supports multicast routing protocols such as IGMP, PIM-SM/SSM and MLD.

## Intimate human-computer interaction

BIG2000 series supports Web-based graphical management and interactive quick configuration wizard.

BIG2000 supports automatic register to the BD-COM Pallas cloud platform. Users only need a browser or an APP to manage the whole networking devices, check network and device operating status, which greatly facilitates daily operation and maintenance, helps reduce the average fault recovery time and travel costs, and thus improves overall production efficiency.

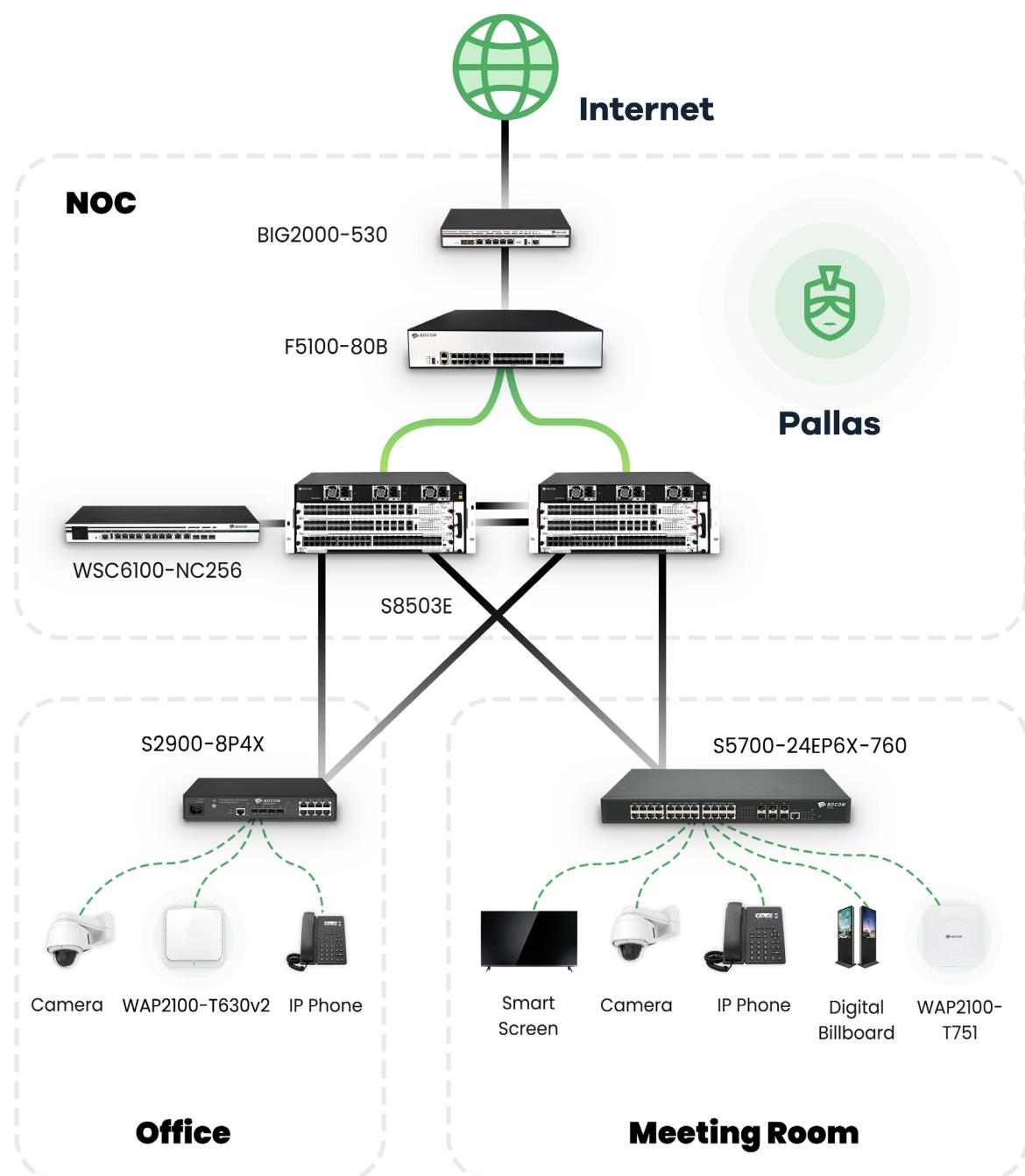
## Model Lists

### BIG2000-530



- 1-Port 10G SFP+ WAN
- 1-Port 10G SFP+/2.5G RJ45 combo WAN
- 4-Port Gigabit RJ45 LAN
- 1 USB 2.0

## Application Diagram



# Product Specifications

Item	BIG2000-530
Management	1 Console 1 USB2.0
Ports	1-Port 10G SFP+ 1-Port 10G SFP+/2.5G RJ45 combo WAN 4-Port Gigabit RJ45 LAN
Button	1 Reset button
CPU	Quad-core ARM
Memory	2GB DDR4
FLASH	4MB NOR + 8GB EMMC
Recommended capacity	500-1000 users
Wireless AP	128 APs capacity
Input Power	AC 100-240V, 50/60Hz
Device size	280 × 180 × 44mm
Operating temperature	0~45 °C
Operating humidity	5%~95% (non-condensing)

## Features

### WAN Capabilities

- Supports static IP, DHCP and PPPoE
- Supports multi-line WAN access
- Supports intelligent load-balance based on equivalent routing, weight, etc.

### NAT

- Supports NAT/PAT address translation based on IP, port and address pool
- Supports ALG and DMZ functions
- Supports global and per-IP connection limits

### Traffic Shape

- Supports flow classification based on IP, UDP/TCP ports and QoS queue scheduling function
- Supports flexible bandwidth control strategies based on user groups and time periods
- Supports blacklist and whitelist functions

### IPv4 Routing

- Supports static routing and default routing
- Supports PBR policy routing
- Supports dynamic routing protocols such as RIP, OSPF, BGP, ISIS, etc.
- Supports floating routing backup, Keepalive, BFD and other remote detection functions

### IPv6 Routing

- Supports IPv6/v4 dual stack
- Supports V4/V6 tunnel and translation technology
- Supports IPv6 routing protocols such as RIPng, OSPFv3, BGP+, etc.

### Multicast

- Supports IGMP, SM/SSM, MLD and other multicast routing protocols

### Security

- Supports IP, MAC ACL and firewall security policies
- Supports various VPN protocols such as L2TP/PPTP, IPSec, GRE, etc.
- Support ARP Scan, DHCP Snooping and other ARP anti-spoofing functions
- Support Anti-Flood, Ping of Death, Tear-drop, WinNuke, Smurf and other attack protection

### IP Services

- Supports DHCP server, relay and client
- Supports Option43, 60, 82, etc.
- Supports DNS and DDNS
- Supports SNTP and NTP
- Supports FTP and TFTP

### Converged Functions

- Built-in wireless controller function
- Supports wireless AP management
- Supports seamless roaming
- Built-in Portal server
- Supports authentication functions based on SMS, card coupons, Radius, etc.
- Supports Internet behavior management, allowing users to block common apps and applications with one click
- Supports Layer 2 and Layer 3 switching, 802.3 protocol, 802.1Q VLAN, Rate-limit, etc.

### Maintenance

- Supports WebGUI management and quick start wizard
- Supports efficient command line configuration tools such as CLI, Telnet, SSH, etc.
- Supports network management protocols such as SNMP and MQTT
- Supports BDCOM Pallas cloud management to achieve device management, topology discovery, log alarm and other operation and maintenance capabilities

## Ordering Information

Item	Description
<b>BDCOM BIG2000-530</b>	BIG2000-530 Converged Gateway (1 Console, 1 USB 2.0, 1-Port 10G SFP+ 1-Port 10G SFP+/2.5G RJ45 combo WAN, 4-Port Gigabit RJ45 LAN; supports 128 AP management; AC-220V power supply)

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