

# HUAWEI NIP2000/5000 IPS



## Overview

The Huawei Network Intelligent Protection system (NIP) is a new generation of dedicated intrusion detection and prevention products. It is designed to resolve network security issues in modern IT environments that utilize Web2.0 and cloud age. The NIP provides such features as virtual patching, web application protection, client protection, malicious-software control, network application management, and network-layer and application-layer DoS attack prevention. It implements network infrastructure protection, network bandwidth performance protection, and server/client protection for large and medium-sized enterprises, industrial users, and operators.

## Product Features

### Comprehensive Protection Ranging from System Service to Application Software

- The NIP provides traditional intrusion protection system (IPS) functions such as vulnerability attack defense, web application protection, malicious-software control, application management, and network-layer DoS attack prevention.
- The NIP provides comprehensive protection for client systems exposed to the prevalent attacks that target web browsers, media files, and other document file formats.
- The NIP provides industry-leading defense against application-layer DoS attacks that spread through HTTP, DNS, or SIP.
- The NIP can detect attacks and upgrade signatures in a timely manner with the global vulnerability trace capability.

### Accurate Detection and Intelligent Interception

- The NIP detects attacks accurately without false positive errors with the advanced vulnerability feature detection technology.
- The NIP automatically learns the traffic baselines to prevent incorrect threshold configurations.
- The NIP automatically intercepts major and severe threats without signature modification.

### Application Awareness for Accurate Control of User Behavior

- The NIP can identify more than 1000 network applications. With precise bandwidth allocation strategies, the NIP restricts the bandwidth used by unauthorized applications and reserves sufficient bandwidth for office applications such as OA and ERP.
- The NIP can fully monitor and manage various network behaviors, such as instant messaging (IM), online games, online video, and online stock trading. This enables enterprises to identify and prevent unauthorized network behaviors and better implement security policies.

### Automatic Configuration and Easy Management

- Zero configuration network access: The device functions properly once it is powered on. No complex signature modification or network parameter adjustment is required.
- Rich policy templates: The NIP provides the simplest configuration mode for various special scenarios, facilitating the implementation of customized security policies.
- Real-time system monitoring and security trend monitoring: The NIP provides tens of analysis reports to present the security status.



# Huawei NIP2000/5000

## Specifications

Model	NIP2050	NIP2100	NIP2130	NIP2150	NIP2200	NIP5100	NIP5200	NIP5500
Product performance	Low-end Megabit	High-end Megabit		Low-end Gigabit		Mid-range Gigabit	High-end Gigabit	10 Gigabit
IPS Throughput	600Mbps	800 Mbps		1.5 Gbps	3 Gbps	5Gbps	6 Gbps	12 Gbps
Extension								
Management port	1×GE(RJ45)	1×GE(RJ45)	1×GE(RJ45)	1×GE(RJ45)	1×GE(RJ45)	1×GE(RJ45)	1×GE(RJ45)	1×GE(RJ45)
Fixed interface	4×GE(RJ45) 4×GE(combo)	4×GE(RJ45) 4×GE(combo)	4×GE(RJ45) 4×GE(combo)	4×GE(RJ45) 4×GE(combo)	4×GE(RJ45) 4×GE(combo)	4×GE(RJ45) 4×GE(combo)	4×GE(RJ45) 4×GE(combo)	4×GE(RJ45) 4×GE(combo) 2×10GE(SFP)
Extension slot	2×FIC	2×FIC	2×FIC	3×FIC	3×FIC	3×FIC	3×FIC	2×FIC
Extension network port	BYPASS: 4×GE(RJ45) 2Line(LC/UPC) Interface : 8×GE(RJ45)、 8×GE(SFP)	BYPASS: 4×GE(RJ45) 2Line(LC/UPC) Interface : 8×GE(RJ45)、 8×GE(SFP)	BYPASS: 4×GE(RJ45) 2Line(LC/UPC) Interface : 8×GE(RJ45)、 8×GE(SFP)	BYPASS: 4×GE(RJ45) 2Line(LC/UPC) Interface : 8×GE(RJ45)、 8×GE(SFP)	BYPASS: 4×GE(RJ45) 2Line(LC/UPC) Interface : 8×GE(RJ45)、 8×GE(SFP)	BYPASS : 4×GE(RJ45) 2Line(LC/UPC) Interface : 8×GE(RJ45)、 8×GE(SFP) 2×10GE 2×10GE+8GE	BYPASS : 4×GE(RJ45) 2Line(LC/UPC) Interface : 8×GE(RJ45)、 8×GE(SFP) 2×10GE 2×10GE+8GE	BPASS : 4×GE(RJ45) 2Line(LC/UPC) Interface : 8×GE(RJ45)、 8×GE(SFP) 2×10GE
Functions								
Server protection	<ul style="list-style-type: none"> <li>◇ All-round server protection, addressing problems including system and service vulnerability exploits, brute force, SQL injection, and cross site scripting</li> </ul>							
Client protection	<ul style="list-style-type: none"> <li>◇ Security protection for web browsers and plug-ins (Java and ActiveX)</li> <li>◇ Protection for files with common formats: PDF, Word, Flash, and AVI</li> <li>◇ Defense against operating system vulnerabilities, detection of infected systems, and detection of spyware, adware keylogger, network scans and dialers.</li> </ul>							
Infrastructure protection	<ul style="list-style-type: none"> <li>◇ Malformed packet attack prevention, special packet control, scanning attack prevention, TCP/UDP flooding attack prevention</li> <li>◇ Application-layer DDoS attack prevention: HTTP, HTTPs, DNS, SIP, and so on</li> <li>◇ Traffic model self-learning: setting the threshold of traffic attacks based on normal traffic statistics</li> </ul>							
Network application management	<ul style="list-style-type: none"> <li>◇ Identification and management of more than 1200 application protocols, covering mainstream application protocols including P2P, IM, online games, stock software, voice application, online video, streaming media, Web mail, mobile terminals, and remote login</li> </ul>							
Device management	<ul style="list-style-type: none"> <li>◇ GUI-based configuration, hierarchical management, permission-based access control, and centralized device management</li> <li>◇ Periodic upgrade of engine repository, rollback of engine repository, and Intranet upgrade</li> </ul>							
Log	<ul style="list-style-type: none"> <li>◇ Device status monitoring, event information record backup, log querying and filtering, real-time monitoring of network status, and specialized reports</li> </ul>							

Deployment	<ul style="list-style-type: none"> <li>◇ Specialized management port: In-line IPS deployment, off-line IDS deployment, and hybrid deployment</li> <li>◇ Hardware bypass and HA</li> </ul>							
<b>Integrated system</b>								
Dimensions (H×W×D) (mm)	442×560×43.6			442×415×130.5				
Maximum power	150W	150W	150W	300W	300W	300W	300W	300W
Power supply	AC:100 ~ 240V 50/60Hz supporting redundancy						AC:100 ~ 240V 50/60Hz DC : -48 ~ -60V supporting redundancy	
Operating environment	Temperature: 0°C to 40°C humidity: 10% to 85%, non-condensing							
MTBF	12.67 years							