



Line Servers General Features I3-ZAFIRO Servers

- **I3-ZAFIRO series-600**
(60 users maximum capacity).
- **I3-ZAFIRO series-1200**
(120 users maximum capacity).
- **I3-ZAFIRO series-2400**
(240 users maximum capacity).

GENERAL FEATURES

i3 ZAFIRO Servers

SSL Connection:

Locally or remotely allows the secure access to the Server administration offers net security and allows remotely server localization. It has the same administration options in each case.

IP Addresses Blocker:

It blocks internal net users, closing every access port and leaving a 1kbps bandwidth.

MAC Address Authentication:

It authenticates internal net users through the physical net address, offering quick and easy system access security. It also unables internal net attacks, unwished bandwidth use and company service access by external equipment.

IP Authentication:

Users' authentication by the internet profile, getting customers' data through it.

Ports' Blocker:

Special ports opening/closing to each user or full service using NAT functions..

WAN Attacks Detection:

It detects net intruders and prevents internet attacks by wide statistic visualization.

Service Quality:

The server offers service quality on port 80 (navigation port) and VoIP ports (1720 and 5060) against P2P ports, offering an effective all services functioning.

Bandwidth Control:

Bandwidth control can be defined in the downloading and uploading, which makes it compatible with time-sensitive asymmetrical applications. E.g. Satellital services.

Bandwidth limitations:

Bandwidth administration code is between a range that goes from 1Kbps up to what the user's needs.

Users Management:

Users management is developed in a quick and simple way:

Channels: Downloading and uploading bandwidth is assigned.

Plans: A channel is assigned and daily managed, to offer specific bandwidth for each day and particular time frames.

Customers: A specific plan is assigned to each customer.

Public IP:

The limited public IP assignment is managed by VPNs. In order to do so, a PPP call is made.



Statistics:

I3- ZAFIRO line contemplates a full statistics system to control the net status as well as the server system use. This implies being one step ahead to the clients' and ISP's needs in a simple way.

Traffic Analysis: Internal and external NICs analysis of the total bandwidth used.

NICs Status: Servers' NICs status, lost packages, NICs provider.

System Logs: Server status, log in information.

Start up information: Hardware and services information in the server start up.

Last logs: Last logs users information.

Active processes: Active processes details.

Resources Information: Physical server resources information, like hard disk use, memory use, server processor.

IP Statistics: It shows the users use by day, month and year, in order to identify users online when visualizing statistics.

Online Statistics: It shows users' online use.

Bandwidth Assigned: It shows the total bandwidth use assigned by the service provider. It allows checking if the bandwidth used is enough to provide service efficiently.

ARP Table: ARP online internal net users' information is showed.

Server Settings:

I3 ZAFIRO line has a DHCP server enabled by default. IPs assigned to customers can be preset by the installer, set on the server, which makes it easier for customers to use the Internet. DHCP option can be unabled from the WEB configuration.

WAN net address and the server Internet connection can be set up from the server WEB. The allowed connections are:

- Fix IP
- Dynamic IP
- PPPoE



Server's Actions:

The following services can be done on the server's basic options.

Free Bandwidth: It opens bandwidth limitation for each user. The same feature allows restarting the limitation service.

Internet Blocker: It allows to cut off the internet access to all users. The same feature can be used to restart the service.

DHCP Server Reboot: It allows rebooting DHCP service (Dynamic IPs delivery)

Net service reboot: It allows rebooting net services, disconnecting all users from the net. This also allows cleaning and renews ARP tables.

Reboot and Turnoff Server: Remotely reboot and turnoff options.

i3-ZAFIRO line is intended to 'offer access quality' to SIP customers and big companies, regardless the physical connection method between regular users/companies and the Internet Service Provider. Interviews to service providers, customers, companies were taken into account, besides our own experience in this market.