

## Questions and Answers

# The Magnia SG20:

## The complete wireless network-in-a-box solution.

### Introduction

Now you can revolutionise everyday communication in your company, small department or home office. Offering secure wireless connectivity and impressive pre-installed software, the Magnia SG20 is the simple, cable-free way to share devices and services or access the Internet – all at a price that won't hurt your pocket.

#### Question: What is the concept behind the Magnia SG20?

Answer: The Magnia SG20 belongs to a class of products that are designed to provide a predetermined suite of functions. They are non-programmable, pre-configured, closed-box systems that run a variety of optimised key applications. This product is engineered for easy deployment and minimal cost of ownership.

The Magnia SG20 is primarily designed for small groups such as SMB (small to medium businesses), SOHO (small office, home office), or small workgroups. These devices perform a variety of functions such as Internet Access, firewall, email, collaboration, file sharing and print serving.

#### Question: How is the Magnia SG20 positioned?

Answer: Magnia SG20 integrates wireless functionality, ease „to use“, ease to „set-up“ into a „**wireless-NETWORK-in-a-BOX**“ at an affordable price.

#### Question: What is the target group for the Magnia SG20?

Answer:

- 1) Home / SOHO / new entrant.
  - Haven't implemented a LAN because they have no IT knowledge
  - Easy deployment of a LAN (no cables)
- 2) SMB / Large Organisation.
  - Implementing Telecommuting / Virtual Organisation (Home Office)
  - Requiring a network to be set-up at a remote branch

#### Question: What's new with the Magnia SG20?

Answer: The Magnia SG20 has now the option of integrated ISDN. The Magnia SG20 launched in Oct '01 only had the possibility of an integrated analogue modem. The available SKUs are:

1. Magnia SG20: Celeron, 64MB, 2x15GB, analogue modem
2. Magnia SG20: Celeron, 64MB, 2x30GB, analogue modem
3. Magnia SG20: Celeron, 128MB, 2x20GB, ISDN modem
4. Magnia SG20: Celeron, 128MB, 2x40GB, ISDN modem

As you can see, the ISDN models have more ECC RAM and larger HDDs. In addition to the hardware spec change, the software image supports VPN.

#### Question: Does the Magnia SG20 Support DSL?

Answer: Yes. Both the analogue and ISDN modem models support DSL. Simply attached an external DSL modem to the "public" Ethernet port on the back of the machine.

#### Question: Why choose the Magnia SG20?

Answer:

- **Wireless connectivity** – work anywhere you choose
- **Pre-installed software** – no need for any IT experience
- **Data protection** – never worry about losing important information
- **Easy set-up** – complete networking in less than 30 minutes
- **Free software upgrade service** – the easy way to stay up-to-date after purchase

#### Question: What does SG stand for?

Answer: Small Group server

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**Question: What the competitor products of the Magnia SG20?**

Answer: The main competitor products to the Magnia SG20 are Right Vision's Eye-box Max and Sun's Cobalt Qube 3, for example. These products all offer different hardware specifications, but have similar functionality in regards to the pre-installed software with Internet, Intranet, firewall, print services, etc.

The Magnia SG20 unique selling point is that it provides these services and more with the flexibility of wireless as a price that is very attractive

**Question: What differentiates a Magnia Z310 from a Magnia SG20?**

Answer: The Magnia Z310 & the Magnia SG20 come from two different school of philosophy. The Magnia Z310 is a compact "general purpose" server that is highly scalable. This server can be scaled up to meet the needs of the customer. The Magnia SG20 on the other hand performs specific pre-defined tasks and is not scalable. It is a closed box that delivers the needs of the customer as a complete solution from the time of purchase.

**Question: Does the Magnia SG20 lend to easy installation and use?**

Answer: Equipped with user-friendly, web-based set-up and network configuration, the Magnia SG20 offers one of the industry's fastest set-up times and is designed to enable customers with no IT experience to get their business up and running with ease and provide simple ongoing management.

**Question: What can the Magnia SG20 be used for?**

Answer: The MAGNIA SG20 can be used as an inexpensive means:

- ◆ to set-up a temporary network when a business expands to an external building
- ◆ to set-up a temporary network when there is a move to another floor
- ◆ to set-up a simply network for visitors, i.e. consultants who spend a short time at company
- ◆ to set-up a simply network for a training facility
- ◆ in a branch office of a large company to pass information from the remote office to a central server
- ◆ in a workgroup or a company of more than 2 PCs to share a printer, internet connection or files
- ◆ in a home environment when 2 or more PCs need to share a printer, internet connection or files

**Question: Does the Magnia SG20 have wireless capabilities?**

Answer: Using an optional Wi-Fi™ WLAN card and pre-installed software, the ingenious Magnia SG20 acts as a stand-alone access point to become the heart of a wireless network. This means you can link notebook PCs and access shared information or peripherals, from anywhere you choose in your home or office without cables to hold you back.

**Question: Usage of wireless LAN option?**

Answer: From the small file/print server system in SOHO where no LAN has been introduced, to the large system in public spaces, such as meeting room in companies, hotels, and airports, from where the access to the internet is available.

**Question: Which client PC can be connected via wireless LAN to Magnia SG20?**

Answer: Those PC's which have the Wi-Fi™ certification, or those PC's which have the Wi-Fi™ certified wireless LAN cards installed.

**Question: Which wireless LAN cards can be installed in Magnia SG20?**

Answer: Both 64-bit and 128-bit Agere Wi-Fi™ cards.

**Question: How many clients can be connected via wireless LAN? How about the performance?**

Answer: According to the wireless LAN standard with which Magnia SG20 complies, logically up to 250 clients can be connected. But, from point of view of performance, it is said that from 10 to 30 clients are generally appropriate for practical use, but it depends on the applications the clients are using.

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**Question:** Can other PC cards than wireless LAN card be installed in the PCMCIA slot?

**Answer:** Only wireless LAN cards can be installed into the PCMCIA slot.

**Question:** What is the advantage of having wireless access point function on Magnia SG20?

**Answer:** Wireless LAN system can be built only by inserting an option wireless LAN card. The initial cost can be reduced since you don't need to purchase access point.

**Question:** Who developed the access point software?

**Answer:** Toshiba developed the access point software for Linux.

**Question:** What is the difference between Toshiba access point software and others?

**Answer:** Magnia SG20 has the software access point function and you can save the initial cost to purchase the access point hardware, but it also has the feature that allows you to enable security like MAC address filtering and WEB keys.

**Question:** Is the MAC address filtering and a WEB key mandatory when using wireless access point function?

**Answer:** It's not mandatory. The setting for using wireless access point function without MAC address filtering and WEB key is also available, but for security reasons, using this MAC filtering and WEB key function is recommended.

**Question:** How does wireless LAN provide security?

**Answer:** In both wired and wireless environments, there is a question of security (people hacking into the network). With wireless, the 64-bit/128-bit WEB key encryption and the MAC filtering support provide the first level of security. Generally WEP key that encodes the wireless data and MAC address filtering that restricts the access from clients are used to provide security. If you need additional security, VPN solutions are recommended.

**Question:** What is VPN?

**Answer:** When you make a long distance telephone call from your home to a relative far away, you are creating a private network. Computers can do the same thing; it's called Virtual Private Networks (VPNs). Equipped with VPN software, a single computer can establish a private connection with another computer or private network over the public network (Internet). The advantages are that, like your long distance phone call, you don't need a direct line between one computer or LAN and the other, but use the local connections, making it much cheaper; and the information you exchange through your VPN tunnel is completely private and very secure.

**Question:** Is the MAC address filtering and WEB key encryption difficult to set-up?

**Answer:** Magnia SG20 automatically collects the MAC addresses whose access to the access point is rejected. The MAC address can be registered by selecting the client from the list of collected MAC addresses. It is very easy to set-up and enable a WEB key on the server a client side.

**Question:** How many MAC addresses can be registered?

**Answer:** Up to 4,096 MAC addresses.

**Question:** Does the Magnia SG20 support wired LAN?

**Answer:** Integrated into the Magnia SG20 is a "switch" for cable connection for up to 7 PCs (and 1 port for the possibility to expand to other devices).

**Question:** Can the Magnia SG20 support both "wired" and wireless PCs at the same time?

**Answer:** Yes. The combination between wired and wireless clients is possible and only restricted to the accepted network performance of the users.

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**Question: What standard features will the Magnia SG20 offer?**

Answer: Engineered to deliver optimised server functionality, the new Magnia SG20 will come equipped with a number of standard features such as email and printer management, Internet connectivity with existing ISP, firewall security, local network management, Intranet, cross platform data sharing, Web caching and advanced data backup.

**Question: What additional features will the Magnia SG20 offer?**

Answer: Further enhancing the Magnia SG20's generous feature set, Toshiba will offer services such as wireless capabilities, remote administration, and software upgrades over the internet.

**Question: What operating system is preinstalled on the Magnia SG20 support?**

Answer: The Magnia SG20 have Linux on the system.

**Question: What other operating systems can be preinstalled?**

Answer: No other operating systems can be preinstalled at this time.

**Question: What are the features (speeds and feeds) of the system?**

Answer: The Magnia SG20 is equipped with the following hardware:

**Processor:** Intel Celeron 566MHz

**Memory:** 64MB or 128MB Unbuffered ECC SDRAM

**Storage Media:** 2x15GB, 2x30GB, 2x20GB, 2x40GB drives

**Network Interface: (Ethernet LAN)**

- ◆ 10MB/100MB Ethernet Switch
- ◆ 1 public Ethernet port
- ◆ 8 private Ethernet ports

**Input/Output Ports & Devices:**

- ◆ 16-character x 2-line backlit LCD with Scroll Button on the front of the machine
- ◆ 1 x Analogue modem or 1 x ISDN modem
- ◆ 1 x PCMCIA slot (Wireless PC card only)
- ◆ Power Button (front of machine)
- ◆ Reset Button (rear of machine)

**Power Supply:** 100V-240V 50/60Hz, 120 Watts

**Question: Why does the Magnia SG20 have such low specs?**

Answer: The Magnia SG20 is a closed box with pre-defined functions. For these pre-defined tasks, Toshiba outlined the necessary specs to support a high performing system. Thus, the specs match the task performed.

The Magnia SG20 is a gateway that links PCs to i.e. the internet, peripherals, etc. The machine doesn't need to have a high processing power, since there is no real "demanding" application running on the system. This applies also for memory. The Magnia passes info, communication to the right location.

**Question: What is meant by 1 public Ethernet port?**

Answer: The Magnia SG20 has one of what is called a public Ethernet port. This port links the Magnia SG20 to the public LAN – the outside world. The IP address comes from the LAN DHCP server, if one is available.

**Question: What is meant by 8 private Ethernet ports?**

Answer: The Magnia SG20 also has eight private ports. Seven of these ports allow for the direct connection of PCs to the Magnia SG20. In this case the Magnia SG20 provides each client an IP address. The 8<sup>th</sup> port can be used for uplift to a hub to expand the usage of the server to more PCs.

**Question: Can the IP address of the Magnia SG20 be changed?**

Answer: At the moment, no. As mentioned above, there is a separation between the public LAN access and the private LAN. In the coming months, this flexibility will be available.

**Question: What is the warranty for this machine?**

Answer: 3 years carry-in. This is, in general, more than competitor products.