



- Internet telephony PBX system with built-in VoIP technology
- Works as a DSL router behind a DSL modem
- Works as a router behind a cable modem
- Connects to an existing router or IP network
- Full-featured router with integrated firewall
- Up to 10 Internet phone numbers

AVM FRITZ!Box Fon ata 1020

The VoIP PBX for DSL and Cable Modems

FRITZ!Box Fon ata is the VoIP PBX system for connecting to your DSL or cable modem. Take advantage of Internet telephony simply by connecting your existing analog telephones to FRITZ!Box Fon ata. You do not need a computer to make VoIP calls. FRITZ!Box Fon ata lets you telephone both over the Internet and over the ISDN or POTS phone line. And with FRITZ!Box Fon ata you can continue to receive calls at your current telephone number. Furthermore, FRITZ!Box Fon ata also lets you surf the Web, send and receive emails and chat — from one or several PCs. You can connect PCs to FRITZ!Box Fon ata via LAN or USB port.

Internet Telephony Without a Computer

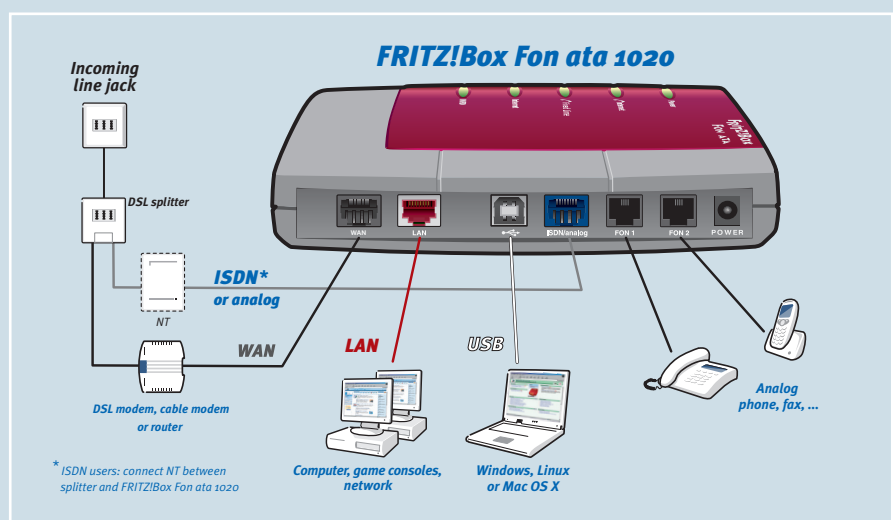
FRITZ!Box Fon ata makes Internet telephony as easy as a phone call should be. Once you have registered with an Internet telephony provider, you can use the connected phones for incoming and outgoing calls with all the convenience you are accustomed to. Moreover, FRITZ!Box Fon ata provides all the features of a conventional PBX system, including Caller ID, call forwarding and three-party calls. With its connection to the con-

ventional phone line, FRITZ!Box Fon ata lets you receive calls at your existing telephone number.

A Convenient and Secure Router

FRITZ!Box Fon ata connects one or more computers to an existing DSL or cable modem — easily and safely via USB or LAN cable. The built-in firewall adds security to your surfing pleasure.

You can either let FRITZ!Box Fon ata be your DSL router or connect it to an existing router to use only its PBX capabilities. Its firewall functions protect the PC against unauthorized access from the Internet. Other network devices can also be connected to FRITZ!Box Fon ata if you want, including game consoles, access points, network switches, or an IP telephone. The Ethernet





and USB interfaces can be used to connect individual PCs or whole networks to your Internet access. And the powerful firewall with NAT makes it easy to configure port forwarding. At the same time, traffic shaping ensures constant utilization of the full bandwidth, even during simultaneous uploads and downloads.

Firewall:

- Full-inspection firewall
- Network Address Translation (NAT)
- IP masquerading
- Port forwarding
- TÜV-certified security

Direct Access via DSL or Cable Modem

FRITZ!Box Fon ata supports operation behind a DSL or cable modem and establishes a direct connection to the Internet. In this operating mode, FRITZ!Box Fon ata functions as a full-featured DSL or cable router. An integrated, TÜV-certified firewall protects all of the IP equipment connected to FRITZ!Box Fon ata.

In addition, the DHCP server in FRITZ!Box Fon ata provides easy address assignment for the local network.

- Direct dial-in via DSL or cable modem; PPPoE; routing mode
- Integrated firewall enabled
- DHCP address assignment for all IP clients in the local network

Connects to a Router or an Existing IP Network

FRITZ!Box Fon ata can also be integrated in an existing LAN as an IP end system. Its IP address can be configured manually or obtained dynamically from a DHCP server. FRITZ!Box Fon ata uses the STUN protocol to ensure smooth telephone connections through a NAT firewall.

- IP address configurable manually or by DHCP
- STUN protocol

ISDN Features in VoIP

FRITZ!Box Fon ata provides many PBX convenience features, including call waiting, call forwarding, three-party calls, and more. You can use these features both for fixed-line calls and in Internet telephony. The combination of fixed-line and Internet telephony permits new uses, such as the call-through function to permit calls over the Internet from mobile phones.

Furthermore, FRITZ!Box Fon ata supports the convenience features of modern phone lines, both over the fixed line and over VoIP. Features supported over SIP include three-party calls (3PTY), external call transfer (ECT), call diversion, and message waiting indication (MWI).

Technical Details:

FRITZ!Box Fon ata 1020

- PBX with two analog extensions
- SIP module for VoIP
- Connects to ISDN and analog phone lines
- Router with integrated firewall
- Direct dial-in via cable or DSL modems
- Firewall

PBX

- Assign dial-in numbers to the extensions
- Dialing rules for fixed-line and Internet calls
- Carrier preselect for fixed-line calls
- 100 quick-dial numbers for Internet and fixed-line calls
- PBX linking and "Call through" functions

Supported Features

ISDN and VoIP

- Internal call forwarding
- External call forwarding
- Three-party calls
- Call holding; alternating between two calls; consultation
- Caller ID suppression (CLIR)
- Caller ID (CLIP)
- Internal and external call transfer (ECT)
- Call waiting, and more

VoIP

- Protocols: SIP, SDP, RTP
- All major codecs
- Dynamic codec management
- Use up to 10 SIP accounts
- Voice Activity Detection (VAD)
- Packet loss concealment (PLC)
- Dynamic jitter buffer
- Echo cancellation
- QoS: ToS, DiffServ

Router Functions

- DHCP server
- Traffic shaping
- DynDNS client
- NAT firewall
- Port forwarding

More Features

- Archive call lists
- Night Service
- Push Service
- Click to Dial
- Alarm

