

The BT Business Hub



Introduction

The BT Business Hub allows you to create a network with your computers and peripheral devices. Here are just a few of the benefits of using the BT Business Hub to network your office.

High-performance integrated modem. The BT Business Hub's technology is optimised to improve ADSL performance. It also minimises common interference found when other devices (such as dimmer switches or fluorescent lighting) are in contact with the ADSL line.

High-performance router. The BT Business Hub's router provides the fastest data transfer speeds available between your network and the internet. The high-performance router distributes data seamlessly to all of the computers on your network, without a dramatic loss of performance or speed.

Professional-grade firewall. The BT Business Hub firewall includes both standard NAT/PAT security and Stateful Packet Inspection to defend against Denial of Service Internet attacks.

Flexible networking. The BT Business Hub includes a variety of networking technologies in one box: Ethernet, direct USB and wireless. Use any or all of the following technologies to create a network with your computers and peripherals.

Firewall Monitor.

The BT Business Hub Firewall Monitor enhanced service extends the professional-grade firewall capabilities of your BT Business Hub by continuously assessing threats to your network. Firewall Monitor allows you to:

- automatically download updates to your firewall software to help protect against new threats
- receive on-screen notification to alert you of network attacks
- review details about attacks blocked and the source of the attacks

Internet Access Controls.

The BT Business Hub Access Controls offers two features that help network administrators maintain control over what the PCs on the network can access on the internet, and how often: Content Screening and Internet Access Controls.

Content Screening allows you to help protect your network from web sites with unsuitable content. You control what sites or types of sites can and cannot be accessed.

Internet Access Control allows you to: decide when your devices can access the internet; and restrict internet access by day of week and time of day.

Networking Technology Overview

Ethernet. Ethernet is a local area network (LAN) technology that transmits information between computers at speeds of 10 or 100Mbps. The BT Business Hub has 4 Ethernet ports for directly connecting computers or devices. If your office is wired for Ethernet, you can use the Ethernet interface(s) on the hub to create a broadband network.

USB. The BT Business Hub's USB 1.1 port allows you to directly connect a computer or other network-ready device.

Wireless. The BT Business Hub includes an integrated wireless access point, which allows users to roam wirelessly throughout the home or office. BT Business Hub's wireless technology virtually eliminates wireless 'coldspots' in the home. In addition, the BT Business Hub employs a special triple antenna design. The third antenna is used only for transmitting packets, thus mitigating the power loss associated with switching the antenna use back and forth between transmit and receive. This results in greater access point sensitivity, as antenna placement can be better optimised with a dedicated set of receive-only antennas.

Technical Specifications

Local Network Interfaces

- Ethernet 10/100 with Auto-crossover (1 or 4-port RJ-45)
- USB 1.1 slave, series-B port for PC and Mac connectivity
- Wireless 802.11g access point

VoIP Functionality

- Two (2) derived voice lines via an embedded RJ-11 jack
- PSTN failover functionality on Phone Line 1
- PSTN “break out” functionality (to make and receive calls from the PSTN line) on Phone Line 1
- Software upgradable to support back-to-back SIP user agent (proxy function)

Wireless Functionality

- 802.11g wireless access point, backwards compatible with 802.11b
- Multi-SSID: Provides two virtual wireless LANs, one for private data network traffic, and a second dedicated to optimising BT Fusion voice traffic.
- WEP 64, 128; WPA, & WPA2 wireless security support
- MAC Address filtering for enhanced security on the private data network.

Broadband Network Interfaces

- Integrated 2Wire ADSL modem ADSL 1, ADSL2, ADSL2 RE, ADSL2+(1 RJ-11)

Software Tools and Diagnostics

- BT Welcome Pack materials include an extensive, step by step CD-based Windows and MacOS installation wizard

Configuration

- Simple Web-based user interface for easy configuration and diagnostics
- Quick summary page with shortcuts to most commonly used features

Network Protocol Support

- ATM UNI, UBR, VBRnrt, VBRrt, CBR
- Support up to 8 ATM PVCs in any configuration
- IPv4, IPv6 capable, TCP, UDP, ARP, ICMP
- DHCP client/server, DNS client/server, HTTP client and server
- Single IP and multi-IP support
- Multicast IGMP Proxy, IGMP Snooping
- PPPoE, PPPoA, PAP, CHAP, RFC 2684/1483 Ethernet
- Support up to 8 PPP links and up to 8 PVCs
- 802.1x broadband network authentication

Diagnostics and Management

- Remote management and provisioning via SSL connection from BTs Remote Management Platform (RMS) (DSL Forum TR-069)
- Integrated gateway-based diagnostics automatically intervene during error conditions; intercept subscriber Web requests and provide self-guided resolutions
- ATM Ping, DNS Ping, ICMP Ping, Traceroute
- Web-based remote gateway technician view and remote management
- Multi-color indicator lights that monitor your connection and assist with troubleshooting
- Automatic, remote software upgrades via the secure TR-069 remote management standard to ensure the latest features and services are available.

Internet Security

- Integrated firewall includes stateful packet inspection (Layer 4) and local IP spoofing verification
- Supports stealth mode operation
- Unique signed security certificate manufactured into each gateway for TR-069 management authentication

NAT/PAT Support

- Standard NAT/PAT between LAN and WAN
- Automated NAT Pass-Thru for LAN client-initiated VPN tunnels (IPSec, PPTP, L2TP), SIP, H.323, RTP
- Easy to configure NAT pass-through (pinholes) for common applications (games, servers, etc.)
- DMZplus for automatic WAN IP assignment to one local device

Standard Hardware Features

- TR-068 compliant industrial design and LED indicators
- Horizontal desktop placement, or vertical standing via stand (included)
- Built-in wall mounting keyholes for subscriber mounting capability
- External power supply

Physical Specifications

- product dimensions: 23cm x 19cm x 4cm; (.64Kg)
- giftbox dimensions: 20.5cm x 25.8cm x 10.9cm; (1.3Kg)

Operating Environment

- Temperature: 0 ° to 40 ° C
- Humidity: 15% to 80%, non-condensing
- Altitude: 0'– 8,000'MSL

Minimum Requirements

- CD Setup Wizard supports Windows 98, 98SE, 2000, ME, XP, Mac OSX (10.1) and higher.
- Installation requires a standard Web browser (i.e. Internet Explorer)
- All computers and devices to be connected to the gateway must have an Ethernet network interface card or available USB port (Windows 98, 2000, ME or XP; Mac OS 8.6 to 9.x, and 10.2 or higher)