BMT2000-21 Datasheet

Maipu Communication Technology Co., Ltd
No. 16, Jiuxing Avenue
Hi-Tech Park
Chengdu, Sichuan Province
P. R. China
610041
Tel: (86) 28-85148850, 85148041
Fax: (86) 28-85146848, 85148139
URL: http:// www.maipu.com
Mail: overseas@maipu.com

Maipu values and appreciates comments you may have concerning our products or this document. Please address comments to:

Maipu Communication Technology Co., Ltd
No. 16, JiuXing Avenue, Hi-Tech Park
Chengdu, Sichuan Province
P. R. China
610041
Tel: (86) 28-85148850, 85148041
Fax: (86) 28-85146848, 85148139
URL: http:// www.maipu.com
Mail: overseas@maipu.com

Contents

Overview

BMT2000-21 developed by Maipu is the multimedia information terminal, applicable to the data backhaul services unavailable to be covered in the wired network. It adopts the 3G/4G high-speed wireless network as the data bearer network and provides secure and express wireless connection for Internet between the remote devices and sites. No matter where you are, your device can make use of the GPRS/CDMA or 3G network over the world to access Internet or enterprise private network fast. BMT2000 series meets the requirements of the industrial users. It is characterized by the low consumption, small dimension, and light weight. The operation temperature of the device is -25℃~70℃. The EMC index is strict. It can be applied to the harsh and narrow industrial environment, ideal choice for the industrial application.

BMT2000-21 provides the upgradeable Wi-Fi platform. Adopting the in-built 3G/4G module, you can share the 3G/4G network through the bus Wi-Fi immediately, making your device access the high-speed Internet network.

BMT2000-21 has the VPN function and can access the 3G-based VPDN private channel of the enterprise. Meanwhile, it supports the device data being transmitted in the secure IPSec tunnel, preventing the data from being accessed and tampered and providing higher security of the network application.

BMT2000-21 supports various secure and reliable management methods, providing simple and easy-to-use WEB remote network management and SNMP remote management.

BMT2000-21 supports Wi-Fi (802.11b/g/n) standard, support WEP/WPA/WPA2 authentication algorithm, Radius authentication, Portal authentication, and URL push.

BMT2000-21 supports 3G/4G and Ethernet interface as WAN port to access Internet, and also supports 3G/4G port and Ethernet WAN port as backup for each other. 3G/4G and Ethernet WAN ports both can serve as the master port. Ethernet WAN port supports the static address, DHCP, PPPoE and other access modes. The active/standby switchover can support switching based on the link status and also support the switching based on IP.

BMT2000-21 supports the local content on-demand and accesses the local content via Wi-Fi. You can watch the videos and news without accessing Internet.

BMT2000-21 supports the video output function, it integrates HDMI/AV/VGA interfaces, adopting the video output interface to connect the TV screen. It pushes the media information play via the media push server.

Maipu owns the whole-network solution for 3G/4G enterprise-network application and can provide the high-performance central LNS router and the core security router supporting the large-capacity IPSec access, as well as the matching AAA authentication server and 3G/4G device management system (E3G).

Key Features

- 3G/4G and Ethernet WAN dual-line WAN access;
- Connecting the terminal via WLAN and LAN;
- Supporting the GPS locating;
- Small dimension, low power consumption, low noise, and wide work voltage and work temperature;
- Supports the firewall, IPSec, SIM card binding, and other security functions;
- Supports the Portal function, URL push;
- Local content storage, actively pushing the local consultation information;
- Supports the multi-media information pushing to connection the TV screen;
- Supports the E3G management, convenient for the remote maintenance;
- Supports the advertisement program releasing and device management of the iMedia digital signage platform.

Technical Specifications

Hardware characteristics	
Product model	BMT2000-21
Memory	1G
Default Flash	4G
3G mode	3G: dual-port WCDMA 4G: FDD-LTE, TDD-LTE
Ethernet port	1*100/1000M Base-T
Wi-Fi	802.11b/g/n, MIMO
Storage	Support TF card and SSD expanding
Wireless AP	Support 25 Concurrent Wi-Fi User
USB interface	One outer USB interface
Video Interface	One HDMI/VGA/AV
Cabinet material	Metal
Installation	Indoor, unattended communication machine room, attended communication machine room, office
Device noise standard	No-fan design, no noise
Input voltage (DC)	9V-36V
Max. power	10W
Temperature	Long-term work temperature: –25°C～70°C
	Short-term work temperature: –30°C～70°C
	Storage temperature: –40°C～70°C
Humidity	Long-term work humidity: 40%～65%
	Short-term work humidity:10%～90%
	Storage humidity: 0%～95%
Software characteristics	
Basic function	Linux operation system
	Support the 3G interface.
	Active-standby line auto switchover, switchover detection based on the link and IP
	WIFI supports 802.11b/g/n
	Support the GPS positioning
VPDN networking	Support APN access; you can select the operator and set the user

	name, password and dialing string
	PIN code management function
	Support CHAP/PAP/MS-CHAP/MS-CHAPV2 and other authentication modes
	Link keepalive function
	Dialing on-demand function
	Support 2G and 3G network, auto switching 2G/3G network
Remote monitoring	1. Multi-period power-on and power-off, power-off screen 2. Multi-period screen power control 3. Multi-period volume control 4. Remote upgrade and restarting 5. Outage, network, illegal material, disk space and other abnormal alarming 6. Playing stopping, recovering 7. Remote parameter configuration 8. Remote content downloading status, play log monitoring 9. Remote program updating, downloading 10. Remote downloading bandwidth control
Play content	1. Video (support MPG, MP4, AVI, MPEG-2 PS/TS, and so on) 2. Image (support BMP, JPG, PNG and so on) 3. Audio (support MP3, WAV and so on) 4. Words 5. Office file, such as Word, Excel; 6. Web (online and offline) 7. Network flow media 8. Finance exchange rate data 9. Weather forecast 10. Date 11. Background image
Play management	1. Support circulating, timing, inserting, padding, instant caption, interactive touch (optional) and other program list playing; 2. One program list can have different display styles, which can switch over flexibly; 3. Customize screen sub-area deployment, not limited
Portal function	Support customizing pushing URL (customize advertising interface)
	Actively push the local resource link
	Support authentication-free function; also support authenticating by short message, judging the phone operator
Management & maintenance	Support the serial port, WEB, TELNET/SSH configuration mode
	Support the function of exporting and importing the configuration to facilitate the device configuration in batch.
	SYSLOG log function, log classification
	SNMP network management function
	Managing users needs password to login
	Support version upgrade
	wifi network signal indicator, displaying the spot signal strength
Network function	Support routing and NAT work modes

	Network address translation (NAT), port address translation (PAT) and port mapping
	Support static routing and RIP dynamic routing protocol
	Support QoS
	Support Portal, URL pushing
	Status packet inspection (SPI), filter multicast, filter PING packets, prevent DoS attack
	Support ACL
	Supports IP+MAC address binding
	SIM card unique ID (IMSI) binding function
Reliability	Network automatic recovery
	Automatic recovery after device outage