BMT2000-30 Datasheet

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Contents

Overview **4**
Key Features **5**
Technical Specifications **6**
Order Information **8**

Overview

BMT2000-30 developed by Maipu is an industrial-level intelligent terminal applicable to the public transportation scenario and other 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 Internet service for users. BMT2000-30 supports high-capacity extended storage with inbuilt Web Server and provides abundant local content service for users. BMT2000-30 is characterized with low power consumption, small dimension, light weight, inbuilt antenna, safety and beautiful appearance and it meets the stringent requirements of the vehicle scenario. The operation environment can reach -25℃ to 70℃ and the EMC indicator is strict. BMT2000-30 is the ideal choice for the public transportation vehicle scenario and other industrial scenarios, such as bus, train, etc.

BMT3000-30 Series

BMT2000-30 supports the mainstream 4G mode (TD-LTE/FDD-LTE) and 3G mode (WCDMA/HSPA+/CDMA2000). It supports dual SIM dual standby (DSDS) and random combination of the 3G/4G mode.

BMT2000-30 supports, Wi-Fi (802.11b/g/n), open network, WEP/WPA/WPA2 authentication algorithm, Radius authentication, Portal authentication, and URL push.

BMT2000-30 supports 3G/4G and Wi-Fi as the WAN interface to access the Internet. It also supports backup mode and load-sharing mode.

Key Features

- With strong Wi-Fi access capability, support upto 20~25 concurrent users access and watching videos by smart phones.
- Support the GPS positioning.
- Support the security functions, such as IPSec, SIM card binding
- Support the local Portal, remote Portal, and URL pushing.
- Support the high-capacity local content storage. The content can be remotely updated. Support the local information push based on the geographical position.
- Support the remote maintenance and deployment.
- Support the network behavior audit. The network behavior is traceable.
- The device is characterized with mall dimension, low power consumption, and low noise with optical bracket to ease installation.
- Support the power supply by key ignition and 24-hour battery uninterrupted power supply and support 9V-36V wide work voltage with under-voltage and over-voltage protection.
- The device is quakeproof and anti-shake, meeting the IP grade IP53.

Technical Specifications

Hardware specification	
Product model	BMT2000-30
Memory	512 MB
Fixed Flash	2G
Extended storage	mSATA port , can extended to 256G
3G Standard	WCDMA, CDMA2000, HSPA+
4G Standard	TD-LTE, FDD-LTE
DSDS	Support
Number of Ethernet interfaces	1*100/1000M Base-T
Wi-Fi	802.11b/g/n, MIMO
USB interface	1
Shell	Quakeproof, anti-shake, IP grade IP53
Power	9V-36V wide voltage
	power supply by key ignition and 24-hour battery uninterrupted power supply
	Power reversed-battery protection, under-voltage and over-voltage protection
	Aviation plug
Maximum power	15W
Temperature	Work temperature: -25°C to 70°C
	Storage temperature: -40°C to 85°C
Humidity	Work humidity: 10% to 95%
	Storage humidity: 5% to 95%
Software features	
Basic function	Linux operating system
	Support the 3G/4G interface.
	Active-standby line auto switchover, IP-based switchover detection
	Support the GPS positioning and base station positioning.
Local content	Support the Web Server.
	Support the local content remote update.
	Support the breakpoint resume and incremental updating.

	PV/UV statistic analysis
Portal function	Support the local Portal and remote Portal.
	The Portal page can be customized and multiple templates are optional.
WLAN function	Support 802.11b/g/n.
	Support 2x2 MIMO, 300Mbps.
	Support the AP mode and Station mode.
	Support WEP/WPA/WPA2.
	Support Wi-Fi channel configuration and Wi-Fi signal strength modification.
Management & maintenance	Support the WEB and TELNET/SSH configuration modes.
	Support the configuration of the import and export functions to facilitate the device configuration in batch.
	SYSLOG log function, log classification
	Support the remote maintenance of the operation & maintenance platform.
	Support the remote configuration deployment.
Network function	Support the APN and VPDN.
	Support the route and NAT work modes.
	Support the static route and RIP dynamic route protocol.
	Support the QoS.
	Support the ACL.
	Support the SIM card binding.
Reliability	3G/4G network automatic recovery
	Automatic recovery after device outage
	Key task self-monitoring and automatic recovery

Order Information

Model	Description
BMT2000-30	BMT3000-30 Host: 1 x 10/100M/1000M Ethernet interface 1 x USB interface 5 x SMA-J antenna interface (3G/WIFI/GPS) 2 x Wi-Fi antenna, power 3db 1 x mSATA solid state disk (SSD) interface 1 x aviation plug
WM-FDD-CU	4G FDD-LTE Module, Support FDD-LTE mode with HSPA+/WCDMA downward compatibility, including 2 x 4G antenna.
WM-TDD-CU	4G TDD-LTE Module, Support TDD-LTE mode with HSPA+/WCDMA downward compatibility, including 1 x 4G antenna.
WM-HSPA21	3G WCDMA Module, Support HSPA+ mode with WCDMA/GSM downward compatibility, including 1 x 3G antenna.
WM-GPS	GPS Module, Support GPS mode, including 1 x GPS antenna.
SSD-16GB	SSD module, m-sata interface, capacity 16GB
SSD-32GB	SSD module, m-sata interface, capacity 32GB
SSD-64GB	SSD module, m-sata interface, capacity 64GB
SSD-128GB	SSD module, m-sata interface, capacity 128GB
SSD-256GB	SSD module, m-sata interface, capacity 128GB
PWR12-12S1	Input: AC 220V; output: DC 12V 1A, optional in some scenarios