



**air500<sup>®</sup> Dual 3G Router** is one of the best innovations of designing 3G Cellular Router with highest performance in which that can install 2 cellular modules simultaneously both

GSM(HSPA/UMTS) and CDMA2000 1xEV-DO Family. The air500 is able to support the connection of the 2 modules via 3 SIM Card which is provided by same or different mobile operator. This platform is flexible design so that you can benefit to design the wide range network configuration such as;

Option 1 : One HSPA Module, One SIM

Option 2 : One HSPA Module, Two SIM with the difference mobile operator

Option 3 : One CDMA200 1xEV-DO Module, One SIM

Option 4 : Two Module HSPA, Two SIM, Two Operator with active-active redundancy network

Option 5 : One HSPA Module, One CDMA2000 1xEV-DO Module, Two SIM with active-active redundancy network



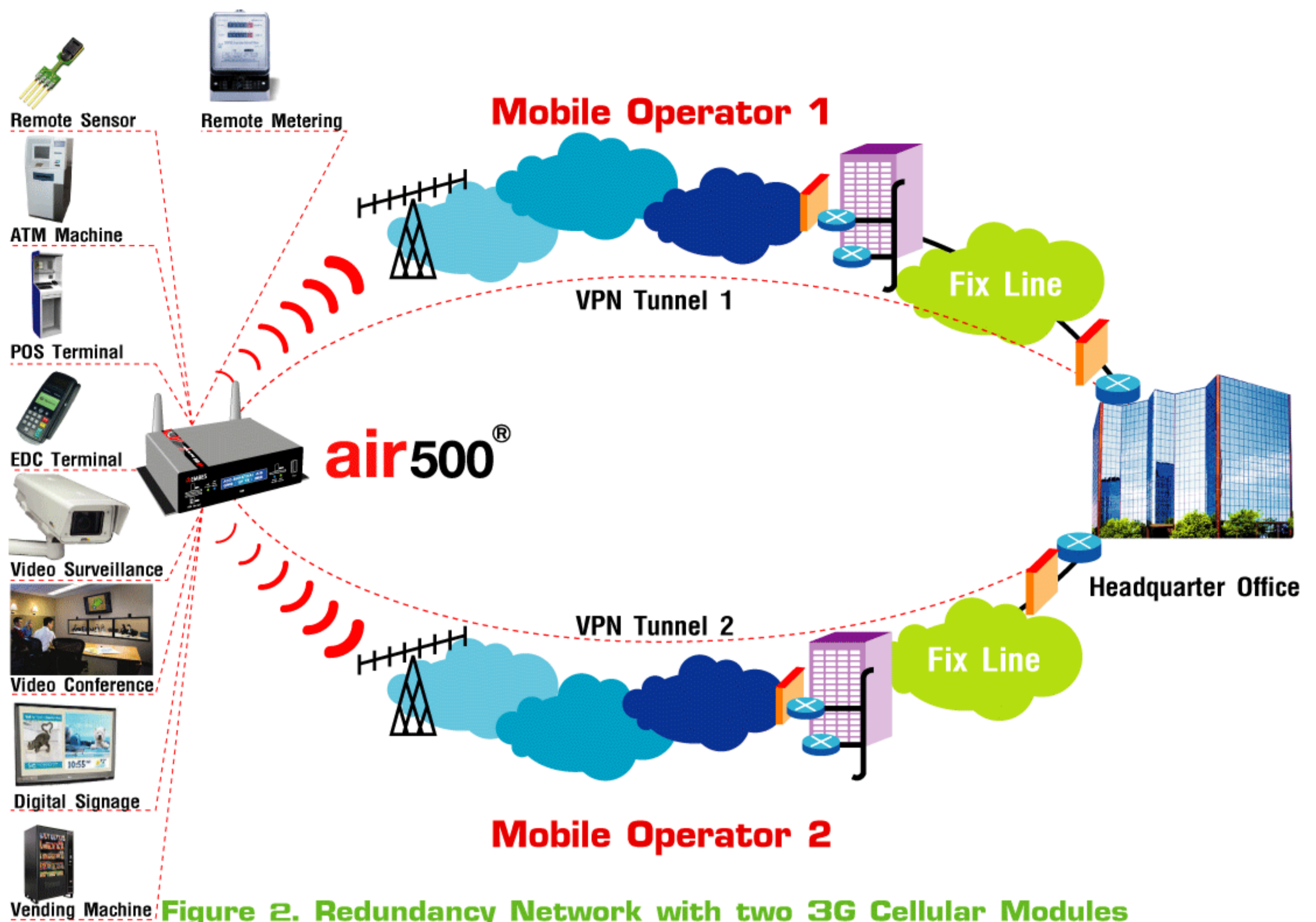
**7.2 Mbps with 3G HSPA**



**3.1 Mbps with CDMA2000 1xEV-DO**

**Figure 1. Display of the speed in Mbps of HSPA and CDMA2000 1xEV-DO**

Rather than an impressive speed of 3G data rates, with network design in option 4 and option 5 as above, it's FULL Redundancy Network by separating two connections line with two differentiate networks for backup each other which means you would reduce the percentage of downtime as much as possible in designing and managing your network.



**Figure 2. Redundancy Network with two 3G Cellular Modules and two differentiate mobile operator**

As for Port Interface, air500's strength is the provision of 1 WAN and 3 LAN ports which enable to divide Segment for increase the level of security of your data. In addition, you can benefit from WAN Port by connecting with Wireline Network such as ADSL or Satellite. This can be easily accommodated because air500 will choose which network suits your network the best.

You can easily configure individual devices through web based configuration and many devices through **iManagement**, intelligent remote device management software that provides easy setup, configuration, reporting and monitoring for large installations. Also, you can proactively monitor for problem devices including excessive data usage, signal strange problem and upgrade thousand devices easily.

**air500**<sup>®</sup> can achieve other abilities and qualities according to regular standard for high performance Router. The hardware based has designed on embedded system rules that use low power consumption and industrial design so that can be used in the extreme environment including the software design that concerns data security certified by nationwide standard while still maintaining its flexibility during performance. Therefore, you can benefit from air500 to use with the wide range of applications that use Ethernet Protocol and also Serial Protocol in a form of Serial Server. Some of the examples are Video Surveillance, Video Conference, Digital Signage, ATM Machine, EDC Terminal, Data Logger, Data Transferring between Headquarter and Branch, Retail/POS sites, remote printer, new construction locations, temporary office, industrial automation, traffic management, medical, vending machine and much more.

As a conclusion, **air500**<sup>®</sup> intelligence can generate new vision to help you decide and choose 3G Network that is fully qualified with speedy, stability, data security and high flexibility. Today, you can be confident selecting 3G Network as your primary network and backup simultaneously in the same piece of equipment.

## Hardware Feature **air500<sup>®</sup>**

- ▶ CPU 32-Bit RISC Architecture
- ▶ 3 x Ethernet 10/100
- ▶ 1 x WAN port
- ▶ 1 x USB 2.0 port
- ▶ 3 x PUSH SIM Socket
- ▶ 1 x Serial/Console Port
- ▶ LED Status
  - CPU / SIM Online
  - SIM Status
- ▶ Real Time Clock
- ▶ Hardware Watchdog

## Environmental

- ▶ 50 Ohm SMA Connector
- ▶ Standard Antenna 2 dBi gain (optional : High Gain Dipole 14 dBi)
- ▶ Operation Temperature -25°C to +70 C
- ▶ Storage Temperature -45°C to +85°C°
- ▶ Relative Humidity 5% to 95% (non-condensing)
- ▶ AC Adapter 5V 3A
- ▶ Dimension (WxDxH) 190x120x46 mm.
- ▶ Weight 800 g.

## Order Information

### air500\_1H850

- 3G : HSPA 850/1900/2100 MHz

### air500\_1H900

- 3G : HSPA 900/2100 MHz

### air500\_1C800

- CDMA2000 1xEV-DO

### air500\_2H850

Dual 3G HSPA 850/1900/2100 MHz

### air500\_2H900

Dual 3G HSPA 900/2100 MHz

### air500\_1H8501C800

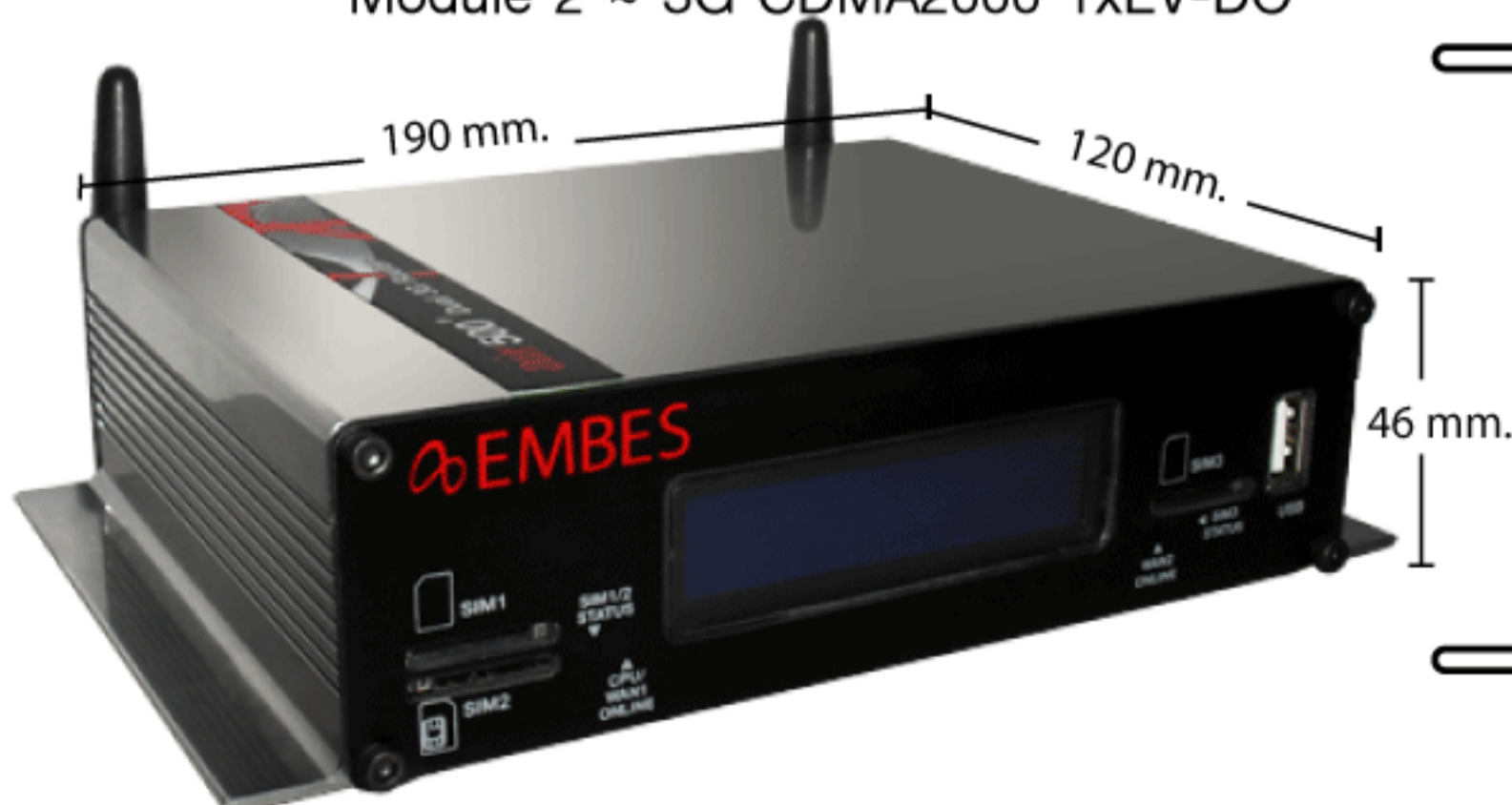
Module 1 ~ 3G HSPA 850/1900/2100 MHz

Module 2 ~ 3G CDMA2000 1xEV-DO

### air500\_1H9001C800

Module 1 ~ 3G HSPA 900/2100 MHz

Module 2 ~ 3G CDMA2000 1xEV-DO



## Software Feature and Protocols Supported

- ▶ DHCP
- ▶ NAT Static and Dynamic
- ▶ TCP Port Forwarding
- ▶ Dynamic Routing : RIPv2, OSPF
- ▶ Tunnel : IPIP, GRE (10 Tunnel Included), GRE keepalive, L2TP Compression
- ▶ IPSec : AES, 3DES

## Management and Configuration

- ▶ SNMP V1, V2
- ▶ Web based
- ▶ SMS Reset

## Wireless Carrier Specification and Certification

### 3G HSPA

- ▶ Triple-Band HSPA/UMTS(WCDMA) 850/1900/2100 MHz or Dual-Band HSPA/UMTS(WCDMA) 900/2100 MHz
- ▶ HSUPA download up to 7.2 Mbps, upload up to 5.76 Mbps
- ▶ HSDPA download up to 3.6 Mbps, upload up to 384 Kbps
- ▶ UTMMS download and upload up to 384 Kbps

### GSM GPRS/EDGE

- Quad band 850/900/1800/1900 MHz
- EDGE Class 12 Throughput up to 240 kbps
- GPRS Class 12 Throughput up to 80 kbps

### 3G CDMA2000

- ▶ CDMA2000 1xEV-DO Rev.A
- ▶ download up to 3.1 Mbps / upload up to 1.8 Mbps
- ▶ CDMA2000 1xEV-DO Rev.O
- ▶ download up to 2.4 Mbps / upload up to 153.6 Mbps
- ▶ CDMA2000 1xRTT
- ▶ download and upload up to 153.6 kbps

