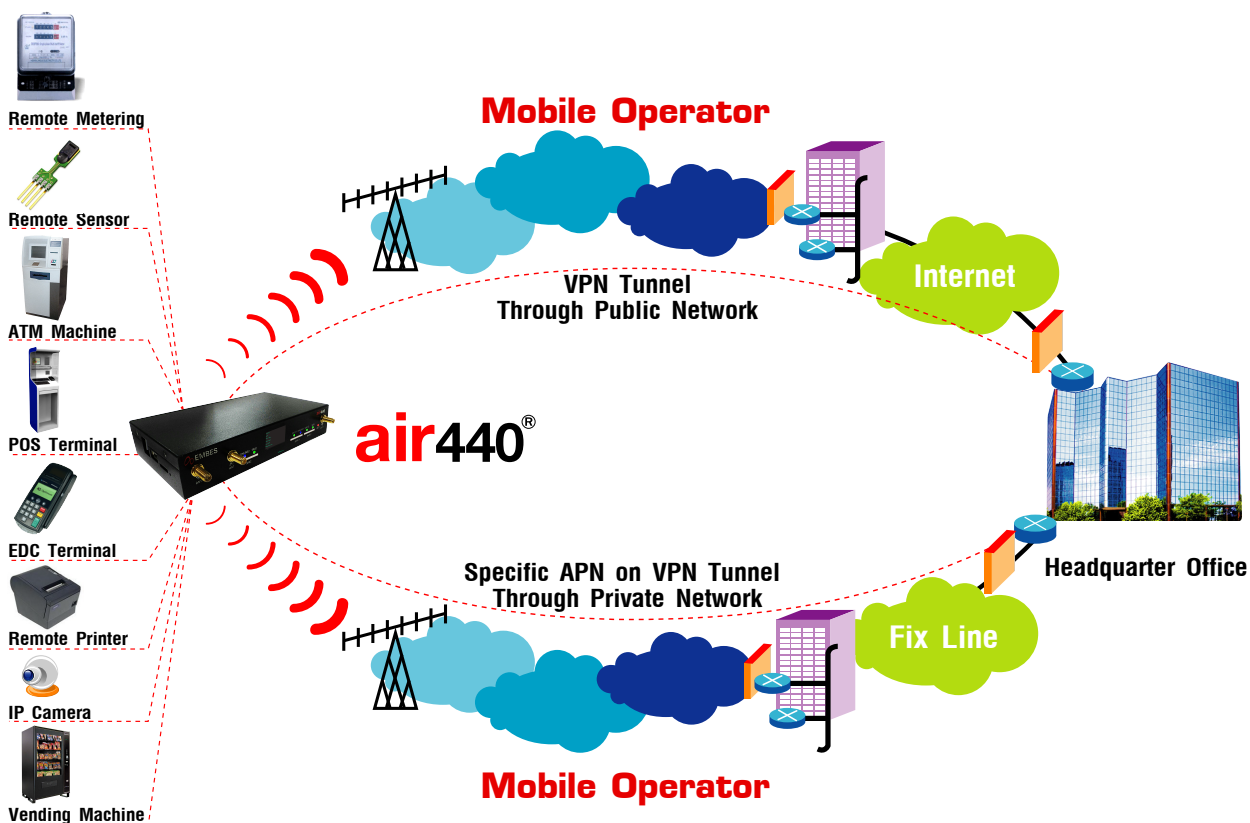# air440®

Anywhere Anytime Any...Device

air440® is one of the best innovations of designing 4G LTE Cellular Router with highest performance. 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 **air**440® 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.

Fantastic highlight and innovation on **air**440® are Battery Backup and Hardware Monitoring, **air**440® included Battery backup 5000mAh that can backup at least one hour at full load (enable Wifi and use highest power on 3G/4G Cellular Network) and the Hardware Monitoring, **air**440® could inform you real time for Input Voltage, Battery Voltage, Charging Status and Inside Temperature. With these fantastic features, you would know whole status in advance of **air**440® including the electric power situation at sites in the REAL TIME. These capability help you control and manage the total network for a high performance with lower administrative costs.

As for Port Interface, **air**440® 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 Wire line Network such as MPLS or ADSL. This can be easily accommodated because **air**440® 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, logging and monitoring for large installations. Also, you can proactively monitor for problem devices including excessive data usage, signal quality, latency, connection history and upgrade thousand devices easily.

As a conclusion, **air**440® intelligence can generate new vision to help you decide and choose 3G/4G Network that is fully qualified with speedy, stability, data security and high flexibility. Today, you can be confident selecting 3G/4G Network as your primary network and backup simultaneously in the same piece of equipment.

◉ Hardware Feature air440®

- ▶ MIPs Processor MIPS24KEc 580 MHz
- ▶ 16 MB Flash and 128 MB Ram
- ▶ 1 WAN and 3 LAN Ethernet 10/100 or 4 LAN Ethernet 10/100 (Configurable)
- ▶ 1 USB 2.0 Port
- ▶ 2 Push SIM Socket WWAN Cellular Dual SIM Active/Stand-by
- ▶ 1 Console Port
- ▶ 1 SD Card
- ▶ LED Status (Wan Status, SIM Status, Signal Strength, Wifi Status)
- ▶ OLED Display
- ▶ Hardware Monitoring (Temperature, Volt-in, Volt-out, Volt Battery)
- ▶ Battery Backup 3.6V 5000mAh (optional)
- ▶ 300 Mbps Wifi 802.11n, 2.4 GHz, 2T2R for AP/Client/Bridge/Repeater (optional)
- ▶ Real Time Clock & Hardware Watchdog

◉ Environmental

- ▶ 50 Ohm Dual SMA Connector fro WWAN Cellular 3G/4G
- ▶ 50 Ohm Dual RP-SMA Connector for Wifi Hotspot Connector (optional)
- ▶ Standard Antenna 2 dBi gain (optional : High Gain Dipole 14 dBi)
- ▶ Standard Antenna 6 dBi gain for Wifi Hotspot Connection (optional)
- ▶ Operation Temperature -25C to +70C
- ▶ Real Power Consumption 3.6Watt and 4.8Watt with Wifi enable
- ▶ AC Adapter 12V 2A
- ▶ Dimension (WxDxH) 185x105x35 mm.
- ▶ Weight 750 g. (included Battery), 600 g. (not included Battery)

◉ Order Information

- ▶ **air440**
    - air440 without Battery and Wifi
- ▶ **air440B**
    - air440 with Battery
- ▶ **air440W**
    - air440 with Wifi
- ▶ **air440BW**
    - air440 with Battery and Wifi

◉ Software Feature and Protocols Supported

- ▶ IP V4/V6 dual stack
- ▶ NAT Static and Dynamic
- ▶ Port Forwarding Protocol UPnP and NAT-PMP
- ▶ Dynamic Routing : VPN pass-through, RIPv2, OSPF and BGP
- ▶ Tunnel : IPSec with IKEv1/v2, IPIP, PPTP, OpenVPN, GRE (10 Tunnel Included), GRE Keepalive, L2TP Compression
- ▶ IPSec Encryption : AES and 3DES
- ▶ Cryptology : SHA-256, SHA-1, MD5
- ▶ Firewall : IP allow/deny/drop, Port Selection
- ▶ SNMP V1, V2
- ▶ Dynamic DNS, DHCP
- ▶ VLAN
- ▶ Quality of Service (QoS)
- ▶ Automatic WAN Switching for Link Backup
- ▶ Wireless Distribution System (WDS) including : WPA-PSK, WPA2-PSK, WPA-PSK/WPA2-PSK Mixed Mode (optional)
- ▶ Wifi Content Filtering (optional)
- ▶ Temperature and Voltage Monitoring
- ▶ GPS Location Service (optional for GPS antenna)

◉ Management and Configuration

- ▶ SNMP V1, V2
- ▶ Web Interface and CLI using SSH/Console
- ▶ SMS Reset
- ▶ iManagement

◉ Wireless Carrier Specification and Certification

- ▶ **4G LTE**
    - Five Band LTE 800/900/1800/2100/2600 MHz
    - DL up to 100 Mbps, UL up to 50 Mbps, 2x2 DL MIMO
- ▶ **3G**
    - Tri Band UMTS(WCDMA) 900/1800/2100 MHz
    - HSPA+ DL CAT24 / UL CAT6, Dual Carrier
    - DL up to 42 Mbps, UL up to 5.76 Mbps
- ▶ **2G**
    - Quad Band 850/900/1800/1900 MHz
    - GPRS Class 12 data rates
    - DL and UP up to 85.6 Kbps

185 mm. · 105 mm. · 35 mm.

EMBES · air440 · ANT1 · ANT · ONLINE2 SIM2 · SIM2 · SIM1/1 ONLINE1 SIM1/2 WIFI · BATT · ANT2 · SIM1/1 · SIM1/2

MAIN1 ANT · POWER 12VDC · AUX1 ANT · WAN/LAN1 · LAN2 · LAN3 · LAN4 · AUX2 ANT · ON/OFF · MAIN2 ANT

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EMBES — the leading innovative