

PARROT 212B

ODMA Wireless Subscriber Relay Networks



Opportunity Driven Multiple Access™ (ODMA) is a patented mobile wireless broadband system comprised of primarily PARROT subscriber devices that build, strengthen and support the network infrastructure with increased energy efficiency. The ODMA™ technology supports user needs of high system capacity, easy installation, very low power consumption, high mobility and 4G-like bandwidth. The PARROT product line is designed to enable WIDENET™ ODMA Service Providers to deliver mobile data, video and voice services and specialized applications over an intelligent, self-organizing dynamic network.



The PARROT 212B Subscriber Unit combines an exceptional compact design with performance and mobility; surpassing the needs of the most demanding business requirements for either fixed or mobile high-speed broadband access. The PARROT 212B provides broadband service at any location within the ODMA system coverage.

Applications

Residential Broadband – With the P212B, a Service Provider can deliver fixed wireless broadband to residential areas where typical broadband services, such as xDSL and cable, are not available.

Mobile Hotspots – Connecting a P212B to a Wi Fi access point, can transform a bus or a train into a mobile hotspot.

Public Security – Police, firefighters and other emergency services or first-responders can be easily connected to a control center and other group members while on duty.

Mobile LCD Advertising – The P212B enables a central advertising management system to push real-time video clip in-house, or to in-vehicle advertising LCD panels.

Location Update – Provides broadband connectivity to public transportation systems to report real-time GPS coordinates of vehicles.

Key Benefits

Plug and Play – An Ethernet DHCP client device can access the P212B wireless broadband without installation of any drivers.

Mobile Broadband – Delivers up to 1 Mbps, in fast-moving vehicles.

Low Radio Output Power – The average radio transmission power is less than 10mW, which is approximately 25 times lower than typical cellular phone levels.

High Security – Users enjoy ultimate security with smart card user authentication, AES data encryption, together with channel and packet-route diversity.

Pre-paid or Post-paid – Service Providers can charge subscribers with a variety of systems, including the reliable 3G USIM billing mechanism.



ODMAEnabled™



SPECIFICATIONS

PARROT 212B

Physical

- **Weight:** 165g
- **Dimensions (L x W x H):** 130 x 86 x 16mm
- **Interface:** Smart Card Reader •• 10/100BaseT RJ45 Ethernet •• LED Indicator (Power, Link, LAN, Data)
- **User Access:** Via activated 3G Compatible SIM card

Power

- **Power Input:** 5V DC
- **Power Consumption:** <4W

Environmental

- **Operating Temperature:** 0C~+50C
- **Storage Temperature:** -40C~+80C
- **Humidity:** 0%~90% •• non-condensing

Radio Specs

- **Frequency Band - 802.11a/g:** 2.4~2.483GHz •• 5.15~5.85GHz
- **Modulation:** OFDM
- **Burst Data Rate:** Up to 6Mbps •• 12Mbps •• 24Mbps
- **Smart RF Control:** Automatic Output Power Control •• Automatic Channel Switching
- **Transmit Power:** 13dBm at 24Mbps (5GHz) •• 15dBm at 24Mbps (2.4GHz) •• 17dBm at 6Mbps
- **Receiver Sensitivity (typical):** -82dBm at 54Mbps (5GHz) •• -82dBm at 24Mbps (2.4GHz) •• -90dBm at 6Mbps
- **Built-in Antenna:** 3dBi at 2.4GHz (average) •• 3.5dBi at 5GHz (average)
- **External Antenna Connector:** MMCX

Operating Systems

- Windows •• Linux •• MAC •• Any device with 10/100BT Ethernet and support DHCP Client

Networking

- **System Architecture:** ODMA Subscriber Relay
- **Mobile Wireless Access:** Seamless Hand Over
- **Fault Recovery:** Self Configuration •• Self Healing
- **DHCP:** Server
- **Session Persistent Roaming:** TCP/UDP
- **Throughput:** Up to 3.5Mbps burst

Security

- **Authentication:** Smart card user authentication
- **Channel Diversity:** Channel hopping
- **Packet Route Diversity:** Adaptive packet forwarding

Management

- **Management Interface:** Web-based
- **Firmware Update:** Remote via wire or wireless

Accessories

- MMCX to Reverse SMA cable (optional)
- Dual Band Car Mount Antenna (optional)

Compliance

- **FCC:** Part 15, Class B

Package Contents

- **PARROT 212B ODMA Subscriber Unit**
- AC/DC power adapter
- USB power cable
- LAN cable

Easy Plug and Play

1.) Plug in Smart Card



2.) LAN Port



3.) Adjust Antenna 90°



4.) Power On



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