PARROT 250A

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 250A Internet Gateway performs intelligent packet transformation between the ODMA network and external application networks. The 250A provides the routing and translation functions so that external network source packets destined for PARROT devices can reach their destination nodes. All packets going out of the PARROT network will have to go via the gateway to access Internet.

Dynamic Load Balancing

The PARROT 250A is designed to take advantage of the inherent flow control and load balancing of an ODMA network. Multiple 250A nodes can be used to provide multiple points of ingress/egress to a provider's network so that the dynamic routing capabilities of ODMA can be fully exploited as well as to provide redundancy and load balancing support. The intelligent dynamic routing interaction between PARROT 250A and PARROT 240A Concentrator allows the network to select the optimal gateway that can best serve individual packet deliveries.

High Availability

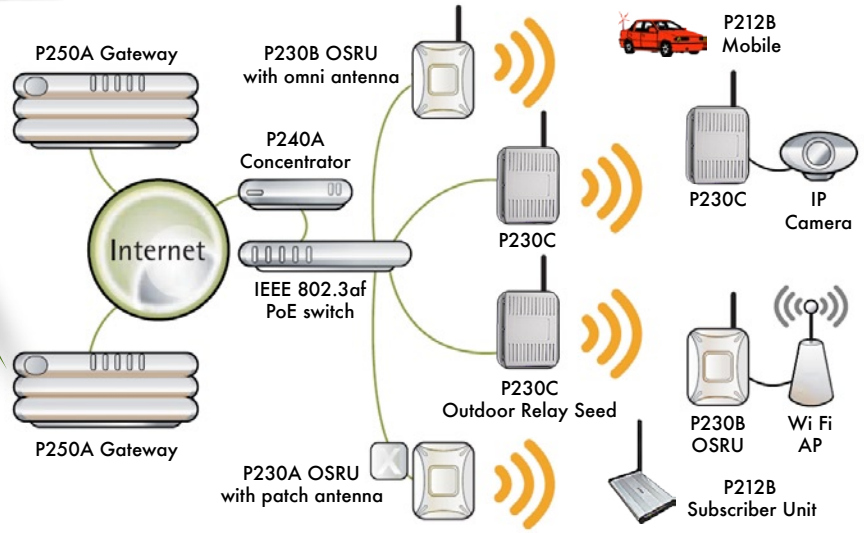
The PARROT 250A is powered by a multi-processor, high-availability server platform designed to handle high volume demands for service providers. The ODMA technology at the heart of the PARROT is designed to handle one or multiple simultaneous 250A Gateways off-line events and will automatically reorganise the network routing to accommodate any resource modification. These events are then reported instantly to the network management center.

Simple Scalability

As the subscriber base grows, PARROT 250A Internet Gateway can be added to increase external network throughput. No sophisticated network, hardware, or software configuration is required. Just connect the 250A to the Internet and it will share system load, enhance Internet throughput, and provide additional network resiliency.

ODMA*Enabled*™

PARROT System Architecture



WIDENET™
Service Providers

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SPECIFICATIONS

PARROT 250A

Software Specification

Operating System	Fedora Core 5
Networking	TCP/IP and ODMA over Wire Protocol
Authentication	Smart Card (UICC 3V, ETS I TS 102.221, ISO 7816-3, ISO 7816-3)
System Throughput	Up to 1000Mbps (WAN Side)
Management Interface	Secure Shell (SSH)
Network Management	SNMPv2c via ODMA Intelligent SNMP Proxy
Firmware Upgrade	Update over wire via SSH

Hardware Specification

Server Model	Dell™ PowerEdge™ 1950
Form Factor	1U Rack High
Processor	Dual Core Intel® Xeon® Pro 5120
Cache	4MB L2
Memory	2GB DDR2 667MHz ECC 1R Fully-Buffered
Hard Drive	160GB 3.5-inch 7.2K RPM SATA II
Network	Integrated Dual Broadcom® GigaBit Network Card with TOE hardware enabled
Interfaces	Serial Port •• Monitor •• Keyboard and Mouse
Remote Management	Dell™ Remote Mangement Card (DRAC5i)
Power Supply	700W •• optional Hot-plug redundant power

IWICS, Inc.
19125 North Creek Parkway
Bothell, WA 98011 USA
Phone: +1.425.329.2599
Fax: +1.425.483.1058
info@iwics.com
www.iwics.com

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