RFNet Technologies Pte Ltd

One Stop Wireless and Networking Solution

www.rfnetech.com

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Wireless • Innovation • Networking

Overview

- About RFNet.

- SOHO Business Connectivity Solution.

- Outdoor Industrial Wireless Solution.

- Outdoor Concept and Application.

- Outdoor Antenna and Accessories.

- Reference Site

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About RFNet

- We provide SOHO Business Connectivity Needs.

- We focus on Outdoor Ruggedized Wireless Solution Platform.

- We provide consultancy in networking design and radio cell planning.

- We are a One Stop Wireless and Networking Solution Partner.

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SOHO
Business Connectivity Solution

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Today Small & Medium Office Needs

- **Wired Computer Networking**

- **Wireless Computer Networking**

- **Firewall for Network Security**

- **Router**

- **File Server**

- **Fax, Copier, Printer and Scanner**

- Mail Server

- Telephone System

- Web server (optional)

Storage & Print Server

All in one printer

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network USB2.0 🖬 🖨

storage and print sharing·
wireless *super g* combo router

APRT 2801GS

- Super G wireless Router extended range and dual antenna diversity

- Network Storing and Print Sharing with 2 USB2.0 ports and user access control of external storage and printer

- Enhanced Security with SPI/NAT firewall, WPA2 wireless security, networking file and print server all-in-one

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network USB2.0 APRT 2801GS
storage and print sharing*
wireless *super g* combo router

Wireless LAN

• Notebook

• PDA

L1 L 2 L 3 L4

4 LAN Ports

• Computer

WAN

• Modem & Internet

2 USB PORTS

• Storage Device

• Printer *

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The Benefits of APRT-2810GS

USB External Storage   All-in-one Router   USB Cable   All-in-one Printer

- Scan to USB Networked Drive

- Incoming Fax to USB Network Drive (Paperless office)

- Wireless and Wired Network Print and Fax

- SPI Firewall & Enhance Wired and Wireless Security

- Multi Media and VoIP Ready

- Support Multiple current Users

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APRT-2518G/GS

Wireless Super G Router

- Up to 108Mbps and Extended Range (Super G)
- Enhanced Firewall with WPA Security
- Wireless Isolation between Wireless Clients
- MAC Address Access Control
- Disable Wireless SSID Broadcast
- Performance breakthrough
  - WLAN to WAN (802.11g) : 22Mbps
  - LAN to WAN (802.11g) : 69Mbps
  - WLAN to WAN (Super G) : 44Mbps
- Radio Design Award by PC Magazine.

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Target Market

- SOHO User

- Department Level

- ISP

- Internet Cafe

- Hotspot

APRT-2801GS

APRT-2518G/SG

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RFNet SIP VoIP Phone

🔴 **Voice Communications via Internet or LAN connection**

🔴 **Open system SIP VoIP architecture for seamless integration into multi-vendor VoIP networks**

🔴 **Router mode to support both voice and data communications via the same broadband connection**

🔴 **Support Port Forward mode**

🔴 **Online firmware upgrade manually or automatically**

🔴 **Plug 'N Play installation**

🔴 **Configurable via Web Browser, Telnet, RS-232 Commands (optional), or Built-in phone menu**

🔴 **Full 128x64 Dot Matrix LCD for both text and graphic display**

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Outdoor Industrial Wireless

Access Point

and

Customer Premise Equipment

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AP-1068-HP

- Fixed or Vehicular Wireless Outdoor 500mW Access Point / Repeater
- For On-the-Halt / On-the-Move Network Environment
- Point to Point WLAN Bridge
- Point to Multi-Points WLAN Bridge
- Industrial grade IP67 casing
- Rugged Cast Aluminium casing
- Up to 25Km range
- Power Over Ethernet
- 250 association and 50 con-current users
- Support seamless roaming
- Designed for Backhaul, Carrier Operators and Mobile Environment

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AP-1061-POE

- Fixed Wireless Outdoor Access Point / Repeater

- Point to Point WLAN Bridge

- Point to Multi-Points WLAN Bridge

- Industrial grade IP67 casing

- Up to 15Km range

- Power Over Ethernet

- 250 association and 50 con-current users

- Support seamless roaming

- Provides up to 12Mbps throughput

- Designed for Carrier Operators and ISP Vendors

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AP-1010-CPE

- Fixed Wireless Outdoor Customer Premise Equipment
- Built-in 14dBi antenna
- Point to Point WLAN Bridge
- Industrial grade IP66 casing
- Up to 8Km range
- Power Over Ethernet
- Alignment LEDs for RF Link and Power
- Provides up to 18Mbps throughput
- Designed for WISP and Hotspot

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Point to Point Wireless Bridge

AP-1068-HP

AP-1068-HP

Line of sight

Building

Building
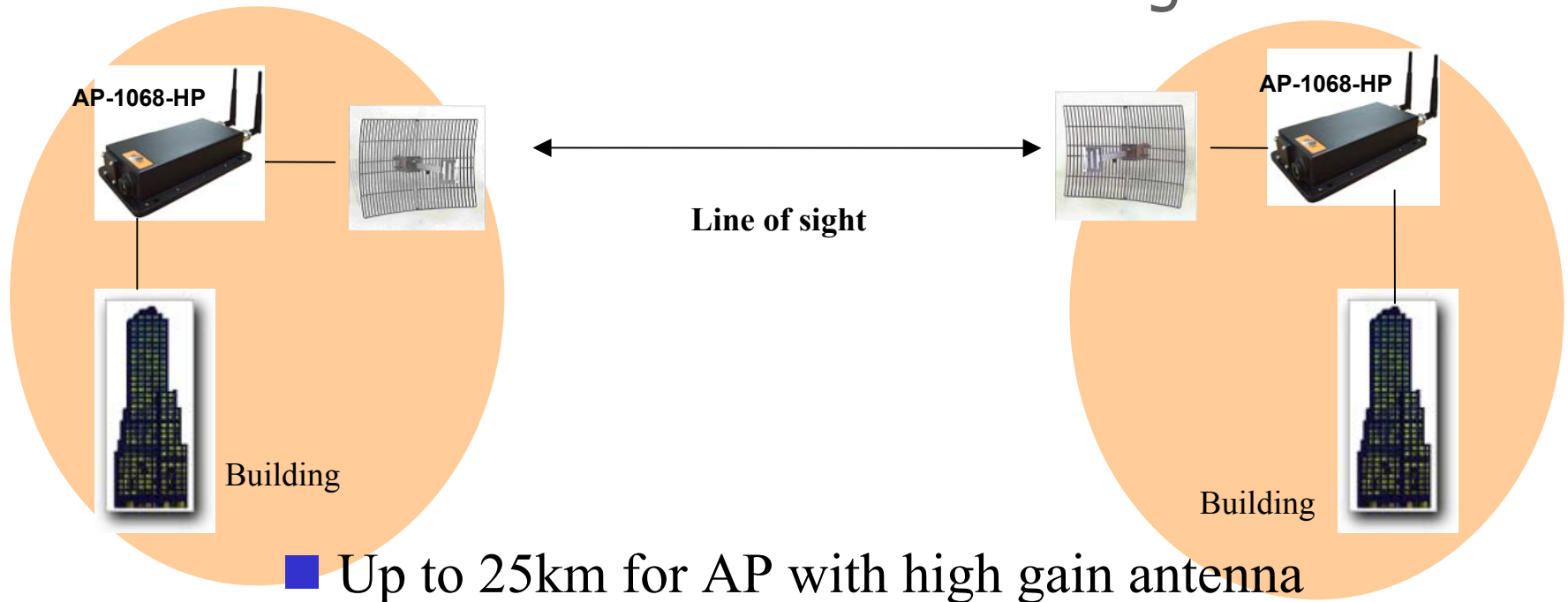
- Up to 25km for AP with high gain antenna

- Carrier Class Reliability

- Up to 43 Mbps through put

- Up to 26 Mbps through put @ 4km

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Point to Multi-Point Wireless
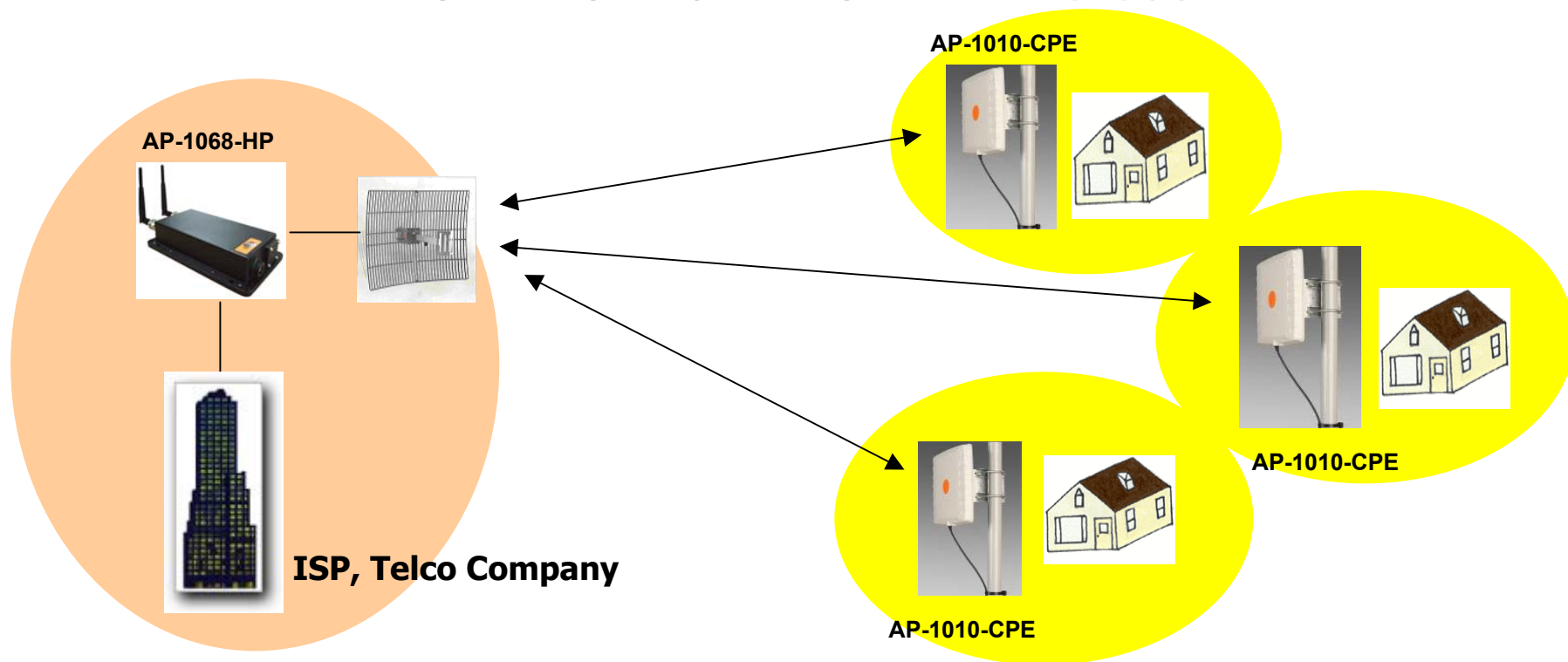
- One master support up to 50 con-current Slave
- 6km to 8km for AP with external antenna
- 4km to 6km for CPE with built-in antenna
- Carrier Class Reliability

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VoIP and Fixed Wireless Solution

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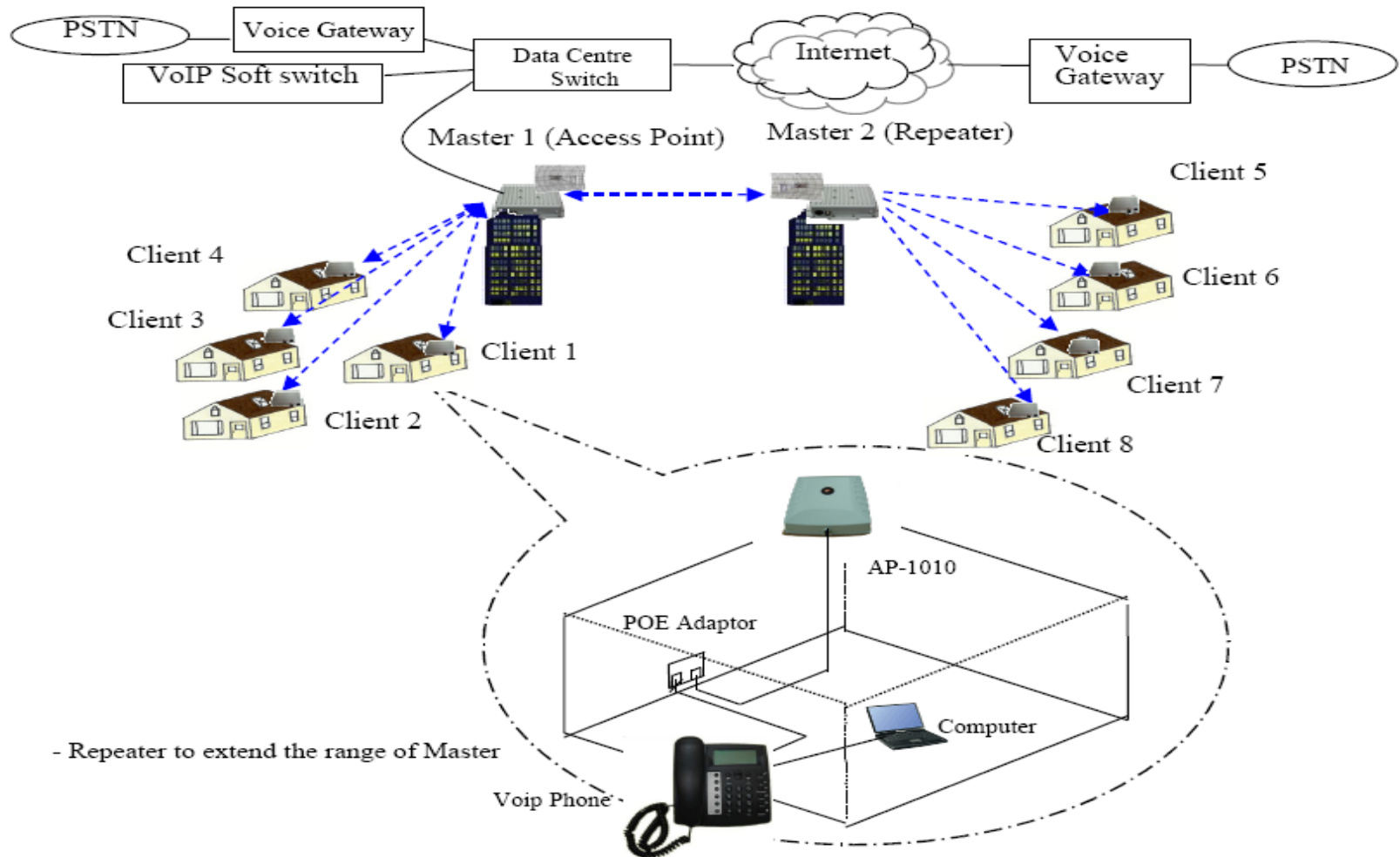
Deployment for Home Surveillance

IP Cameras for Surveillance purposes

RfNet AP101Q CPE Low Cost Outdoor CPE

Laptop wireless connected to router

PC, Wiredy connected to router

RfNet VoP201 VoIP phone

RfNet APR7518SC 4 port SOHO Wireless router

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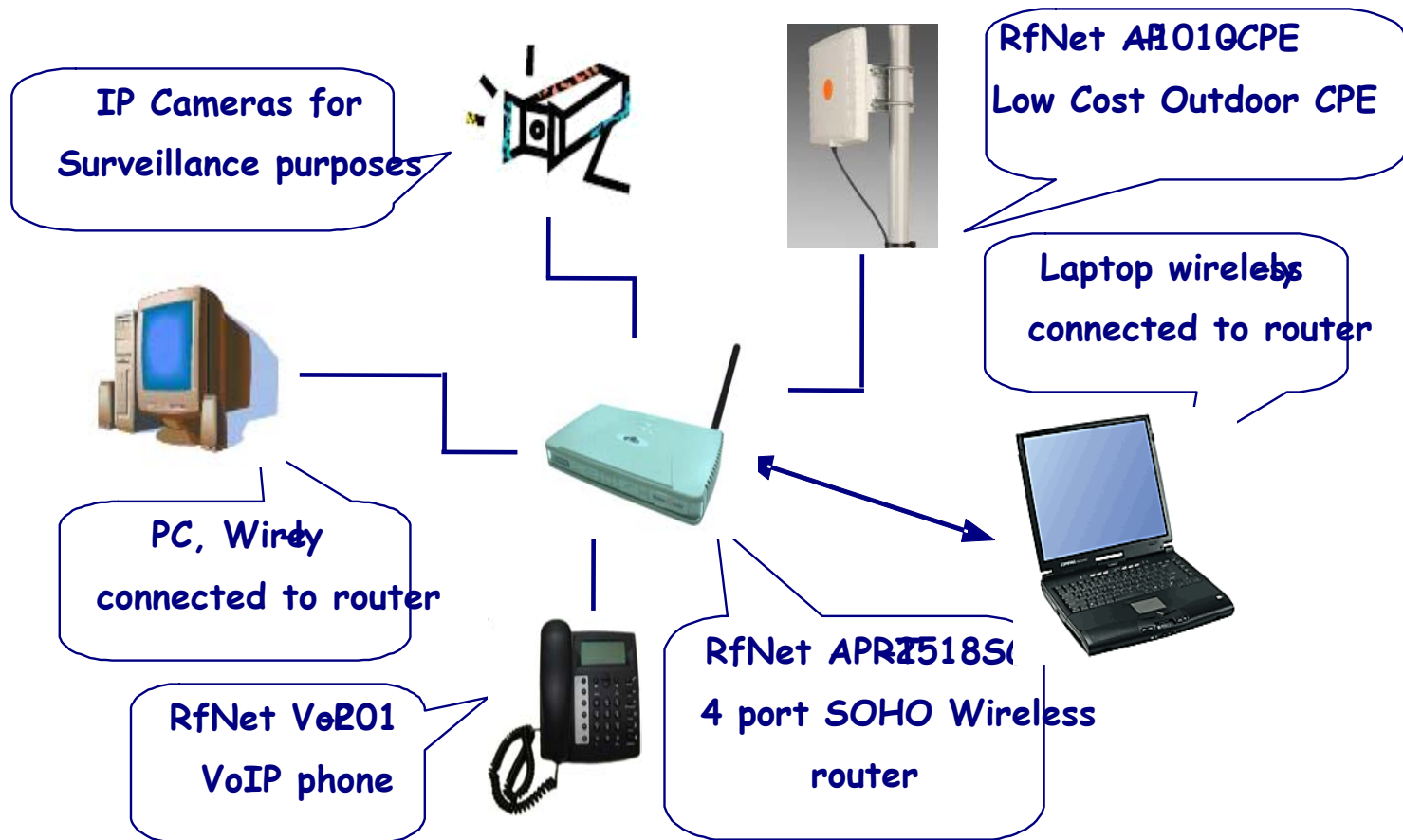
ISP Deployment Solution

INTERNET BACKBONE

ISP NETWORK

DATA CENTRE

FIBRE

ISP NETWORK

ISP NETWORK

5GHz

LINE OF SIGHT BACKHAUL – UP TO 20 KM

WIFI 5GHZ GATEWAY /BASE STATIONS

LINE OF SIGHT TRANSMISSION – UP TO 5 KM

2.4GHz & 5GHz

WIFI RECEIVERS ON BUILDINGS

WIRELESS ACCESS POINTS ON LAMPPOSTS

WIFI RECEIVERS ON BUILDINGS & MESHED WIFI BETWEEN BUILDINGS

(D) HIGH-RISE RESIDENTIAL BUILDINGS

(A) INDUSTRIAL & COMMERCIAL BUILDINGS

(B) WIRELESS HOTZONES

(C) LOW-RISE RESIDENTIAL HOUSES

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Wireless Hot Zone Roaming Deployment

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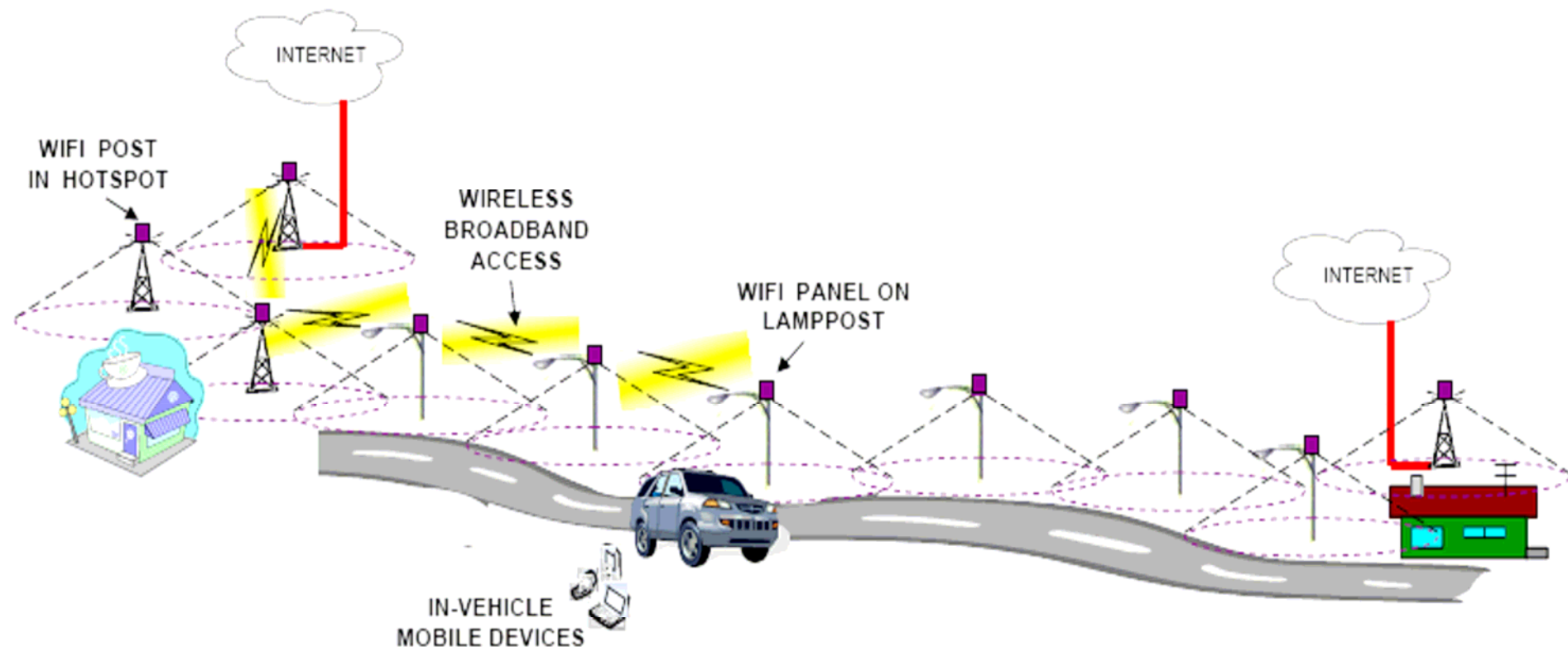
Target Market

- **Metro Wi-Fi**
- **City Wi-Fi**
- **Hot zones**

- **Hospitality**
  - Hotels
  - Resorts
- **Transportation**
  - Airports
  - Railway stations
  - Ports
- **Campuses**
  - Education
  - Healthcare
  - Sport Arenas

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Outdoor Fixed & Wireless Platform

Product Type	2.2 GHz Built To Order	2.4GHz Current	5~5.9GHz Available Nov 2006
500mW Base Station or Vehicle unit	AP-2268	AP-1068	AP-5068
100 mW AP, client	AP-2261	AP-1061	
AP+CPE With Direction Antenna		AP-1010 Gold	AP-5010 Gold
CPE With Directional Antenna		AP-1010 Lite	AP-5010 Lite
Application & Target Market	**Fixed Wireless** **Backhaul Link** **Public Safety** **Surveillance**	**Fixed Wireless** **Backhaul Link** **Public Safety** **Wifi Hotspot** **Logistic** **Warehouse** **Surveillance**	**Fixed Wireless** **Backhaul Link** **Public Safety** **Surveillance**

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Outdoor & Fixed Wireless Roadmap

Now   **Q2/07**   **End/07 onwards**

IEEE 802.11 b/g	MIMO	WiMax
IEEE 802.11a	2~6 GHz	CPE/Client
2.2 GHz	depends	Platform
2.4 GHz	on Demand	
5~5.9GHz		
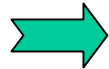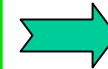
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Antenna

And

Accessories

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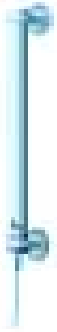
Antenna

ANT-OD5

Omni-directional

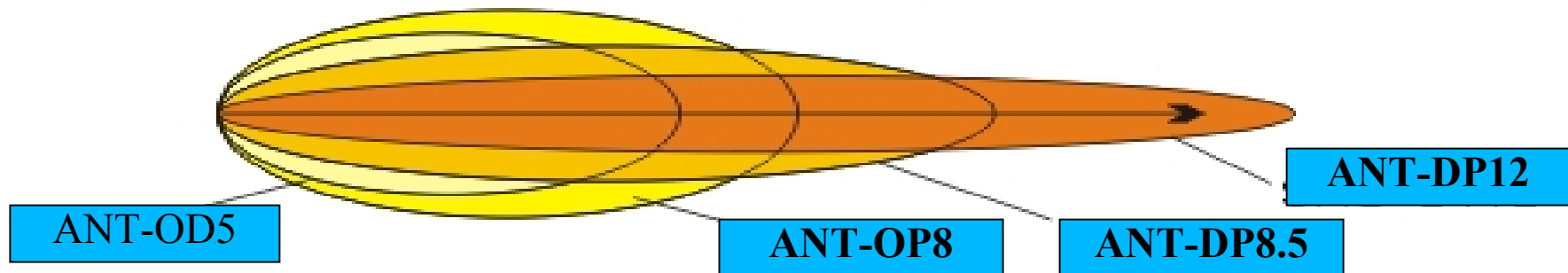**(5 dBi)**

ANT-OD8

Omni-directional

(8 dBi)

ANT-DP8.5

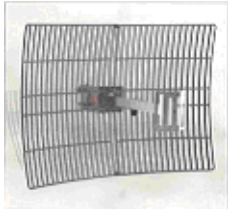**Directional Panel**

(8.5 dBi)

ANT-DP12

Directional Patch

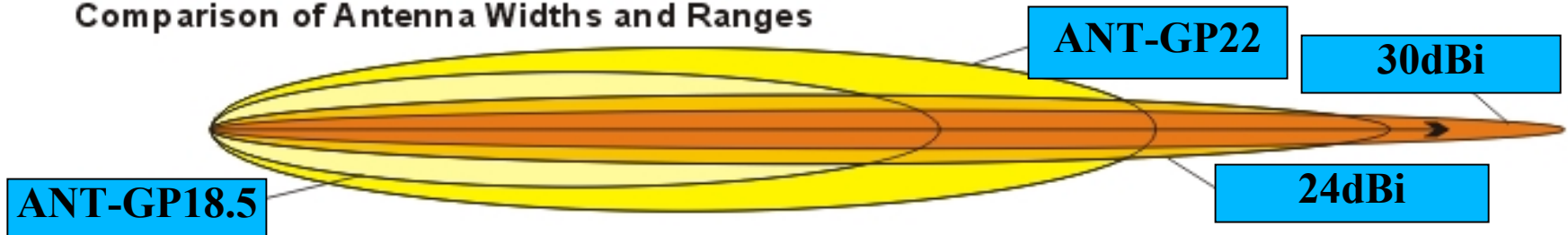**(12 dBi)**

Comparison of Antenna Widths and Ranges

ANT-OD5

ANT-OP8

ANT-DP8.5

ANT-DP12

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Antenna

ANT-GP18.5
Grid Parabolic
(18.5dBi)

ANT-GP22
Grid Parabolic
(22dBi)

Comparison of Antenna Widths and Ranges

ANT-GP22

30dBi

24dBi

ANT-GP18.5

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Modula and Accessories
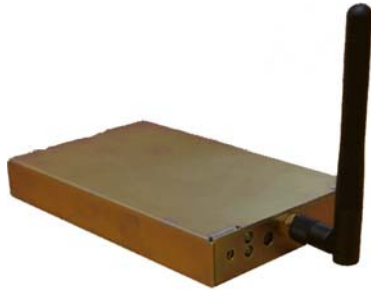
- Industrial Wireless Modula
  - Function as AP or Ethernet Bridge
  - Compact size design
  - Accept 6 – 15V D.D. Directly
  - For incorporated into other products

- Power Over Ethernet with DC adaptor

- Power Over UTP Splitter

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Accessories

- **Lighting Arrestor**

- **RF Adapter (SMA to N)**

- **RF Adapter (SMA to SMA)**

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RF Cable

50 OHM RF Cable

<SMA Type (Male) to N Type(Male)>

3m and 5m length

RFC-030-SMN

RFC-050-SMN

50 OHM RF Cable

<SMA Type (Male) to SMA Type (Male)>

1m, 3m and 5m length

RFC-010-SMSM
RFC-030-SMSM
RFC-050-SMSM

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Reference Sites

United Square Shopping Mall

- 30 APs over 5 floors

- WLAN access for tenants, public.

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Reference Sites

Hanoi, Vietnam

• Across a lake

• Provide Internet access to a resort.

Brunei Airport

• Not feasible to lay cables.
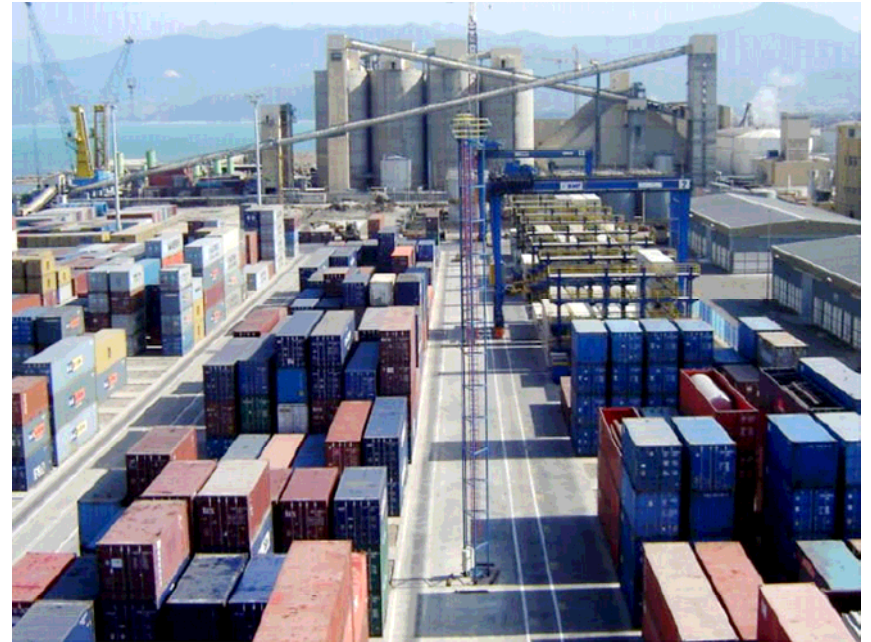
• Link 5 buildings by Wireless

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Reference Site

Lightning Arrestors
will be inside the box

RDS installation in BMT Algeria Port, Africa

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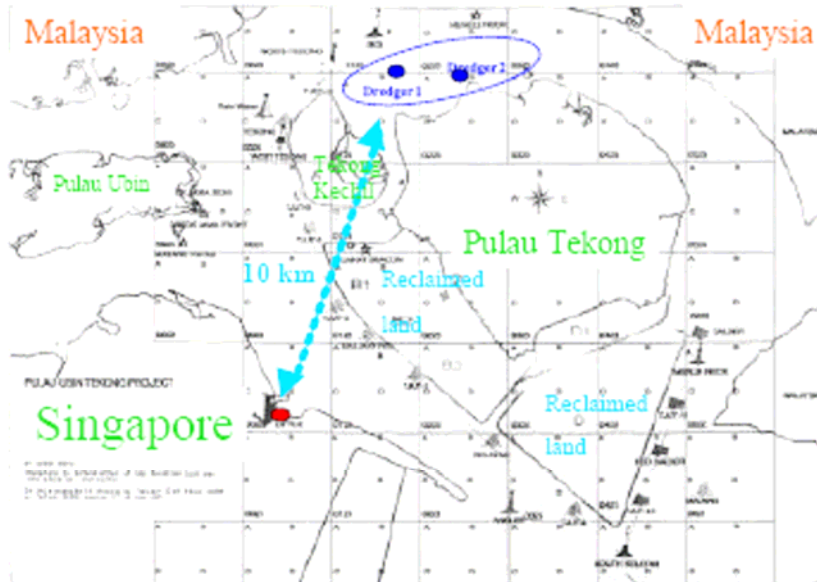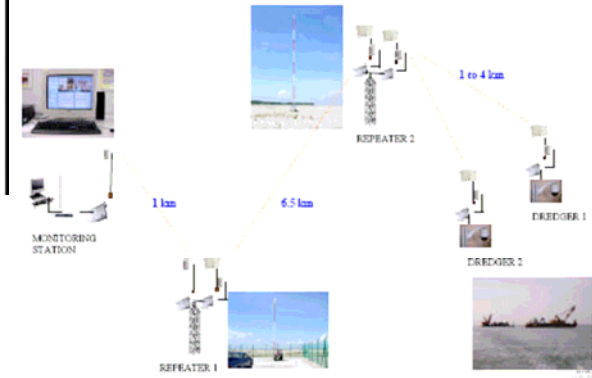
Reference Site

Wireless Video Surveillance for Offshore Dredging in Tekong

Reference Site

Site Installation at a Warehouse in Johor, Malaysia

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Reference Site

Installation at a Jurong Shipyard, Singapore

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