

AP-PCT500 HD
PTT Control IP Terminal

High Performance PTT (Push to Talk) Control IP Terminal ,
Dispatch Terminal Solution



Product Overview

AddPac

AddPac Technology

Sales and Marketing

www.addpac.com

High Quality, High Resolution



Contents

- Product Overview
- Hardware Specification
- Software Service
- Voice PTT (Push to Talk) Service
- Audio & Voice Service and Features
- Network Service and Features
- Application Area
- Ordering Information

Product Overview

- PTT (Push to Talk) Control IP Terminal Solution
- PTT : Handset, Headset, PTT Dedicate MIC., Rotary Switch for Frequency Change
- RoIP (Radio over IP) Control Terminal Solution for Call Center
- High-Quality Audio and Voice Service
- High Performance Programmable DSPs
- HDMI Video Output Support for Full HD Monitor Display
- H.323 and SIP Dual VoIP Signaling Protocols
- Various VoIP Codec (G.711,G.726,G.729ab,etc) Support for Satellite RoIP Service
- Two(2) 10/100/1000Mbps Gigabit Ethernet
- RTSP H.264 Video Decoder (Full HD, HD, D1)
- Call Status Monitoring Support
- XML Browser Support
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
- Audio/Video Privacy Protection
- USB Interface Support for Mouse Control

Product Highlights

PTT Control IP Terminal
& VoIP Telephony

PtP, PtMP PTT
Control Terminal

HDMI Video Output for
Full HD LCD Display
, Menu KEY Control

Excellent Voice Quality
G.722/G.711/G.726/G.729ab/
G.723.1, etc



High Performance RISC CPU
& Programmable DSP

Handset, Headset, PTT
Dedicate MIC.(Motorala)
for PTT Service

Wired &Wireless USB
Mouse (25 Speed Dialing
Key: 5 x 5)

APOS™Technology
Multimedia Network Protocol

State-of-art Signaling
H.323, SIP Dual Stack

IP based Network Protocol
& Voice Traffic QoS

Broadband IP Networking
With dual 10/100/1000Mbps gigabit
ethernet

Rotary Switch for
VHF, HF Channel Switching

Hardware Specification

High-end DSP

- High-end Programmable DSP Hardware Architecture
- 12 Inch Touch Screen LCD Monitor
- High quality Audio and Voice Interface
  - Stereo Audio Input & Output Connector
- Network Interface
  - Two(2) 10/100/1000Mbps Gigabit Ethernet
  - One(1) RS-232C Console
- USB Interface
- HDMI Video Output for External HD Monitor Display
- Power Supply
  - External Power Adaptor
- PTT Mic. Interface : Ex. Motorola PTT MIC.
- Rotary Switch for VHF, HF Frequency Switching
- HD Video Camera Built-in (Option)

Hardware Specification

High-end
DSP



12 Inch Touch Screen LCD

Handset

3x4 Dial & Function & Menu Keys

PTT MIC. (Motorola Hand MIC.)

Hardware Specification

High-end
DSP

Video Phone & Conference

HD Camera (Option)



Hardware Specification

High-end
DSP



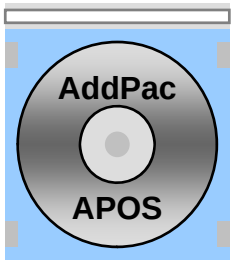
Rotary Switch for
Radio Frequency Change

Headset

PTT in/out Interface

Software Service

- Built-in AddPac APOS Internetworking Software
  - Scalability, Functionality, and Stability Features
  - Voice Traffic QoS Control
- Programmable Audio, and Voice Services
  - Audio Codec
- Firmware Upgradeable DSP Architecture
- OSD (On-screen Display) Function Support
- Industry Standard IP based Network Protocol Features
- RoIP (Radio over IP) PTT Service Features

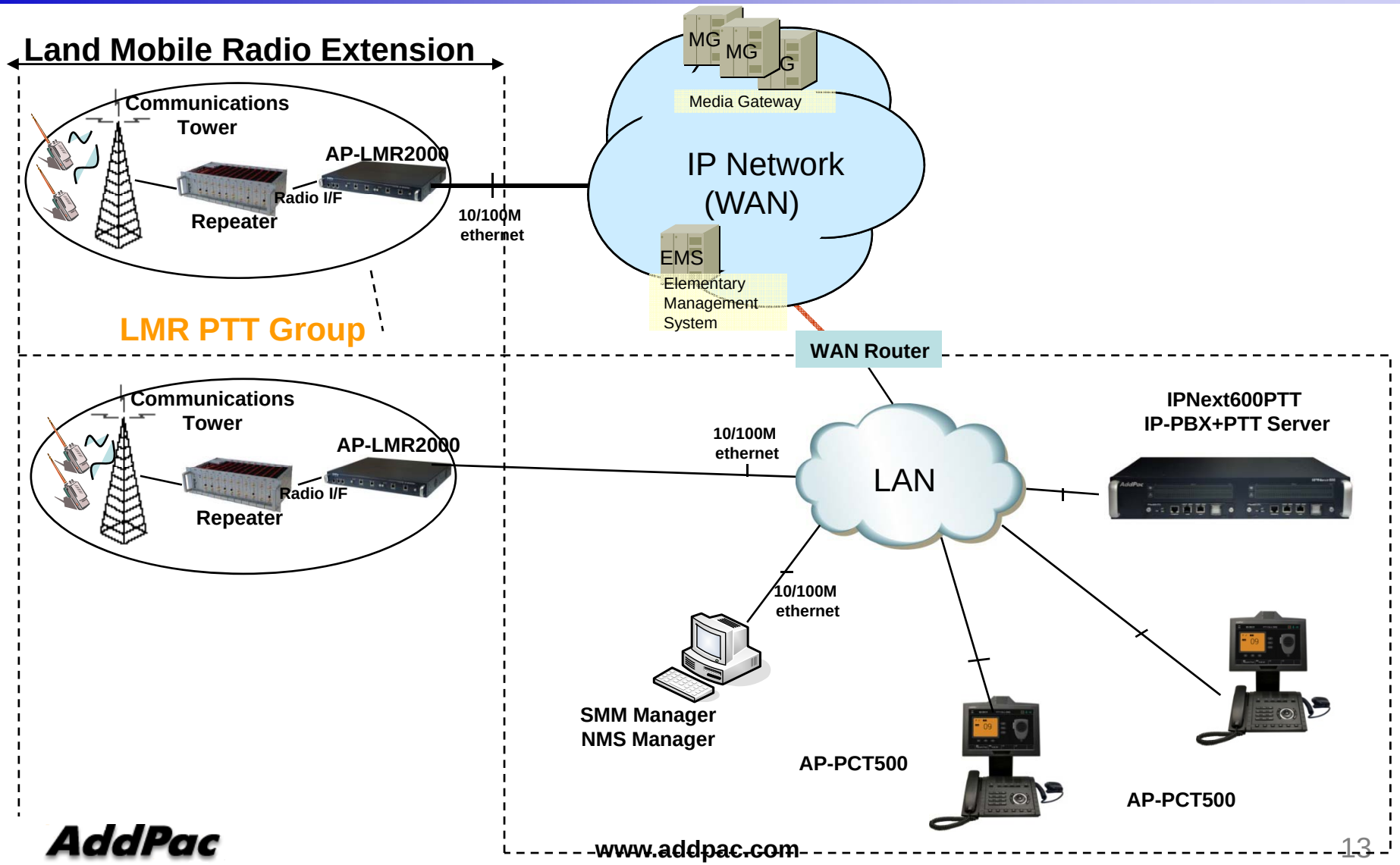


Voice PTT(Push-to-Talk) Service Features

Contents

- PTT Service Network Diagram
- AddPac PTT Service Features
- AP-PCT500 Voice PTT Service UI
  - PTT Idle Mode
  - PTT Call Mode
  - PTT Call Mode (Dialing)
  - PTT Waiting Mode
  - PTT Mode
  - PTT Close Mode

PTT Service Network Diagram



AddPac PTT Service Features

- Various VoIP & PTT Call Mode Support
  - VoIP Call & PTT Call Support
  - Call Waiting Support and Incoming Call Indication
  - VoIP Call and PTT Call Mode Change
  - Various PTT Call Mode Support
    - Point-to-Point PTT Call, Group PTT Call, Emergency PTT Call
  - PTT Call Connection using Send/PTT Button
- Status Display & Indication Function
  - Various Call Status Display using ICON
    - Call, SMS, Wi-Fi Antenna, PTT Call Status
  - Status Indication using LED
    - Absent Call, Emergency Call
  - Status Indication using Sound
    - PTT Call Start/Incoming Call, Wi-Fi connection and release

AddPac PTT Service Features

- PTT Group List Display Function
  - PTT Member List Display
    - Overall, Personal, Group, Emergency List Display
  - Group Presence Status Display
  - PTT Group Presence Status Display (Option : Presence Server Required)
    - Automatic Presence Status Display
    - Manual Presence Status Display
- VoIP Call List Display
  - Outbound/Incoming/Absent Call List
  - VoIP Call Phone Book
  - VoIP Call List Delete and Redialing Support

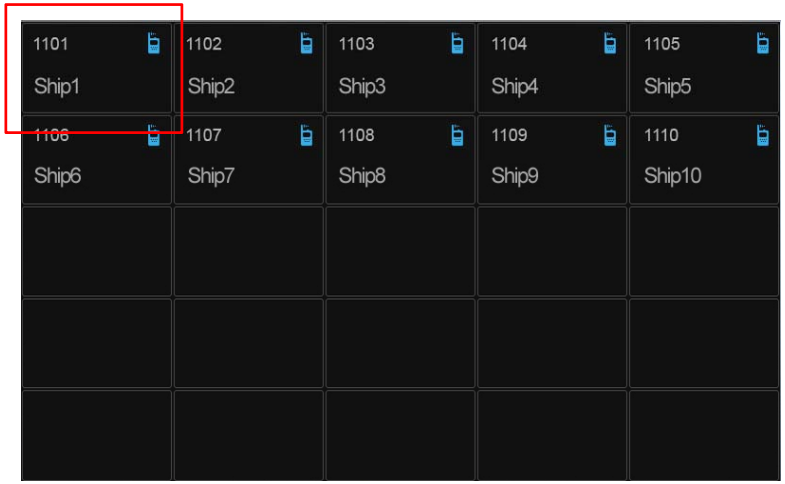
AP-PCT500 PTT(Push-to-Talk) Service UI

PTT Idle Mode



PTT Call Mode by
Speed Dial Press

PTT Call Mode





PTT Call Mode (Dialing)

PTT Dialing Number : Ship1(1101)



Push-to-Talk Mode

Push-to-Talk
(F1 Softkey Press)



PTT Close Mode

PTT Close
(F2 Softkey Press & OK)



Audio & Voice Service and Features

- Audio & Voice Networking Interface
  - Audio Input/Output Port (2 x 3.5mm Stereo Female Connector)
- VoIP based Signaling Protocol Support
  - H.323, SIP Multiple Signaling Protocol Stack
  - H.323 Gateway, Gatekeeper Interworking Support
- High-performance Audio & Voice Codec Support
  - Line IN/OUT : G.711, G.726, etc
- Enhanced QoS Management Features for Voice Traffics

Network Service and Features

- **Basic Network Protocols**
  - ARP, IP, IPv6, TCP, UDP, ICMP, ICMPv6, SCTP, IGMP, MLD
- **Routing Protocol**
  - IPv4 : Static
  - IPv6 : Static
- **Service Protocol**
  - FTP, Telnet, TFTP, DHCP Server/Relay, SNMP Server
  - CDP (Cisco Discovery Protocol)
  - DNS Resolver , DDNS(nsupdate)
  - Bridge
  - Syslog
  - IP/IPv6 policy control (QoS)
  - VPDN (Virtual Provate Dial-up Network : L2TP Server)

Network Service and Features

- **IPv4/IPv6 Interworking**
  - NAT/PAT for IPv4
  - IP connect (formerly ip-share) and device cascade for IPv4
  - IP/IP, IP/GRE tunneling
  - NAT-PT
  - 6to4, Autoconfig tunneling
- **IPv4 Address Configuration**
  - Fixed (Static)
  - DHCP
  - PPPoE
- **IPv6 Address Configuration**
  - Fixed (Static)
  - EUI-64
  - Autoconfig (Neighbor Advertisement and Solicitation)

Network Service and Features

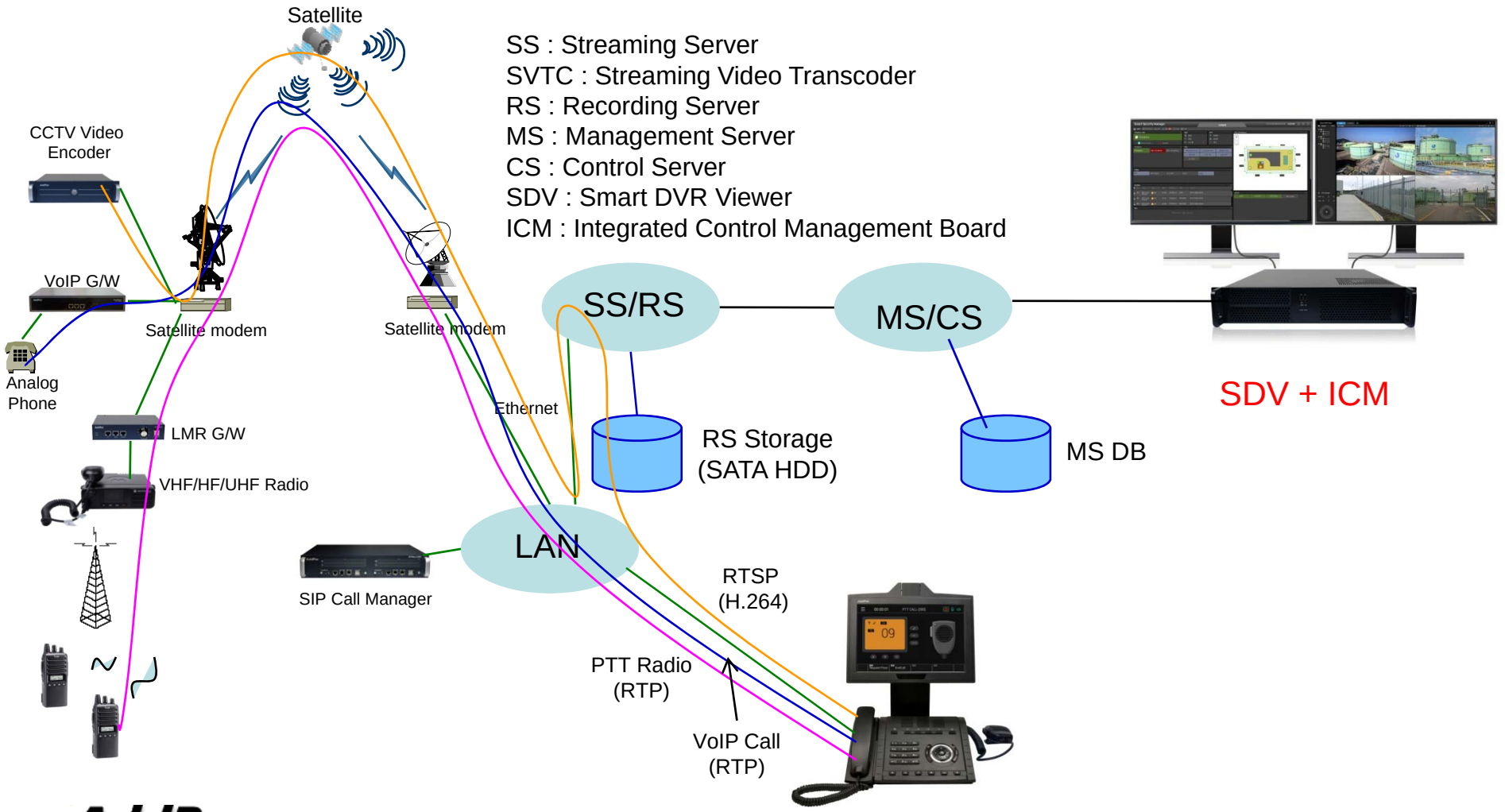
- **Miscellaneous**
  - Cisco Style CLI
  - Standard & Extended IPv4/IPv6 Access List
  - Multi-level User Account Management
  - IP accounting
  - fsh (Embedded file system shell)
  - STUN Client

Network Service and Features

- **SNMP MIBs**
  - MIB-II
  - RMON MIBs (Statistics, History, Alarm, Hosts Group)
  - RFC2465 Management Information Base for IP Version 6: Textual Conventions and General Group
  - RFC2466 Management Information Base for IP Version 6: ICMPv6 Group
  - RFC2452 IP Version 6 Management Information Base for the Transmission Control Protocol
  - RFC2454 IP Version 6 Management Information Base for the User Datagram Protocol
  - AddPac Enterprise MIBs
  - etc

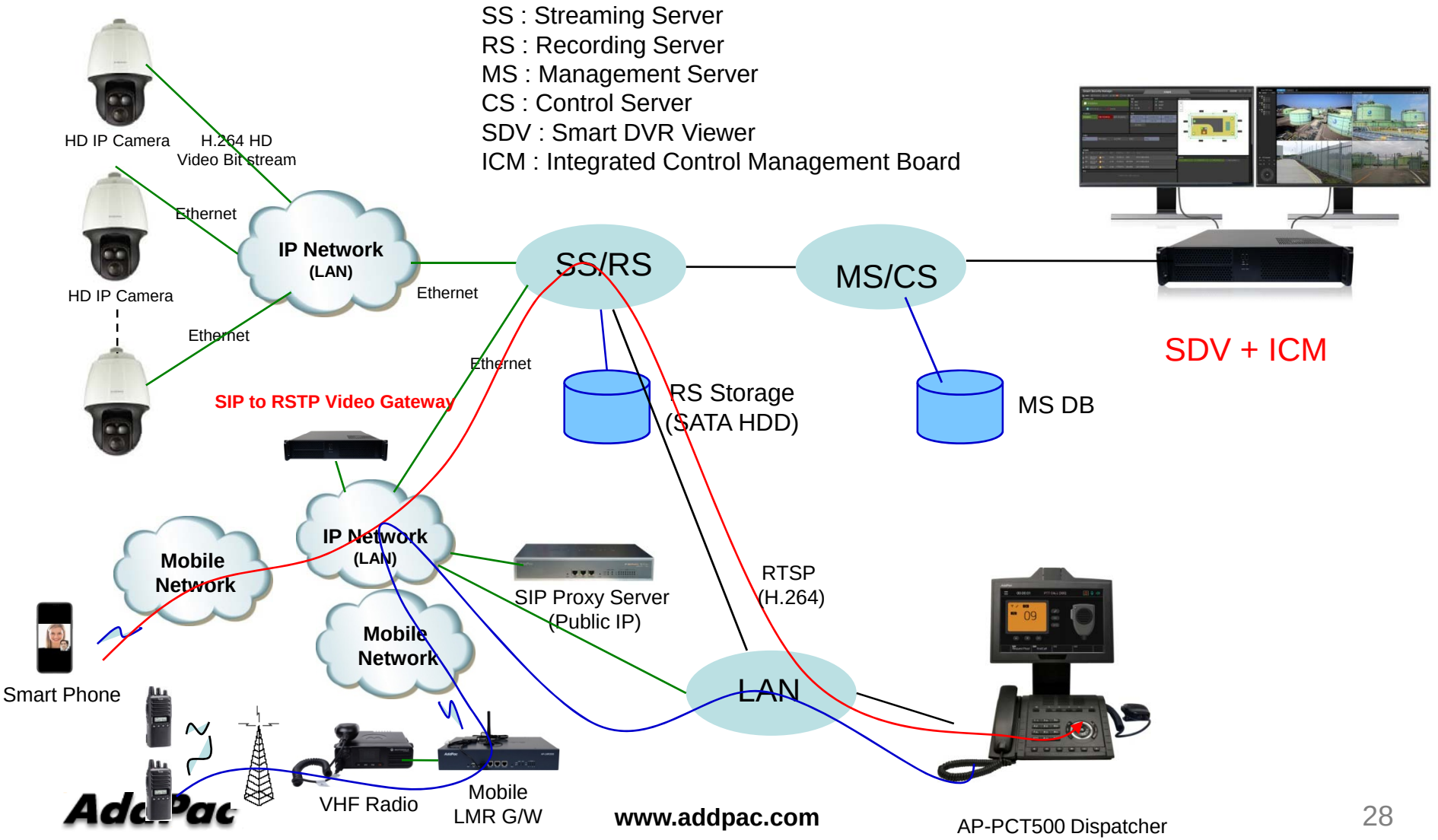
AP-PCT500 PTT Control IP Terminal

RoIP Service + VoIP Call + RTSP CCTV Video Display



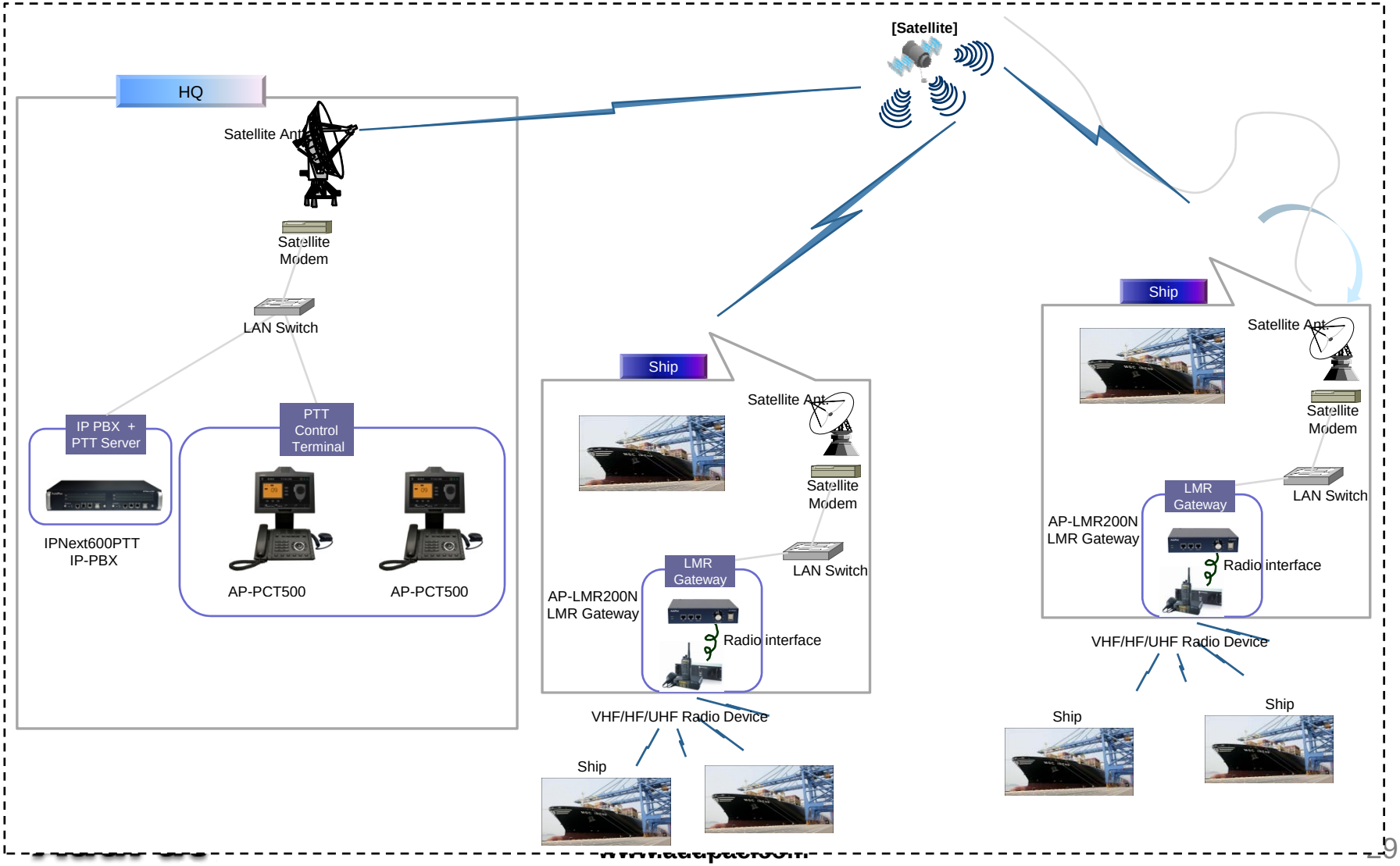
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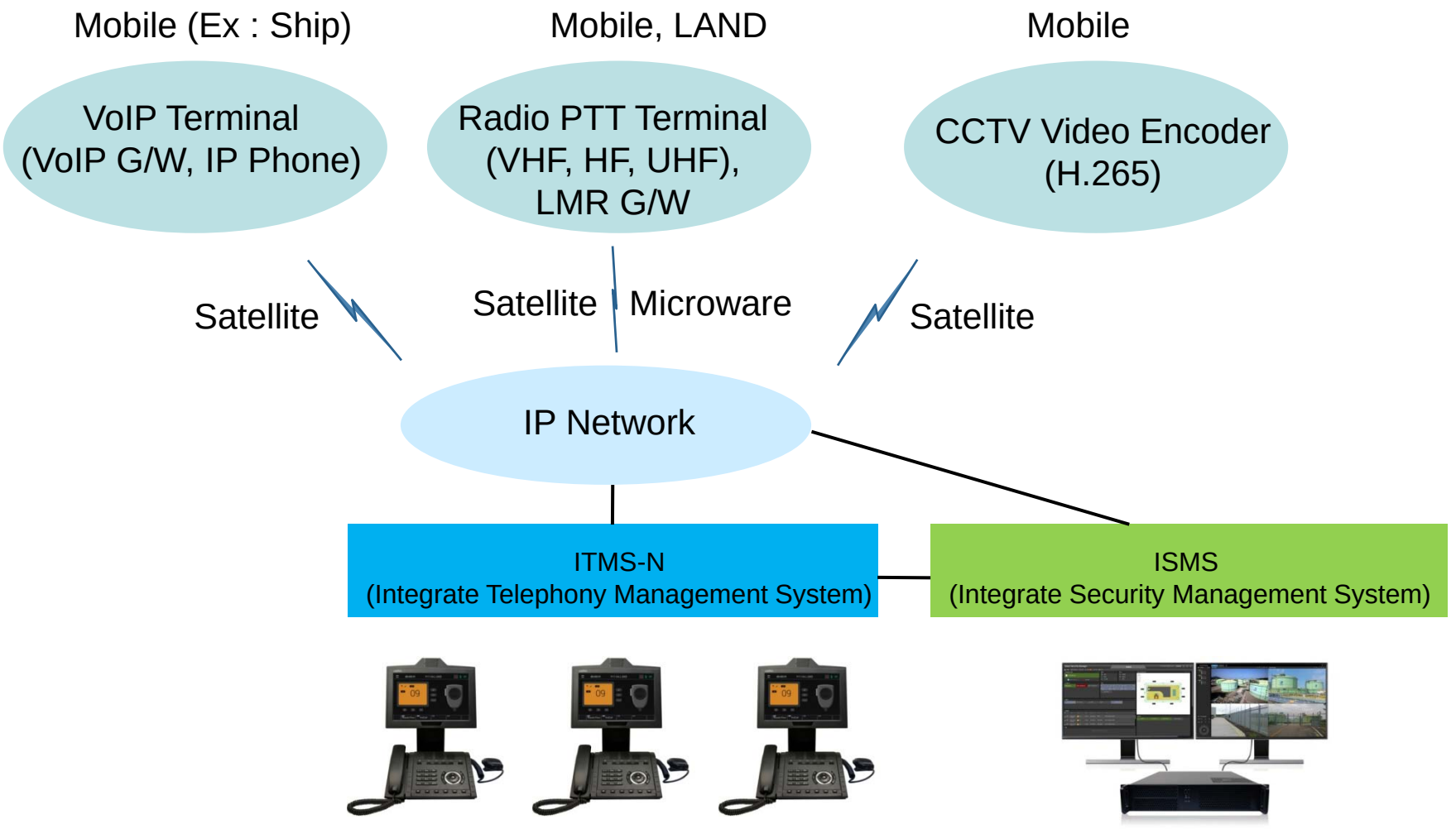
AP-PCT500 PTT Control IP Terminal

Satellite RoIP Service Application



AP-PCT500 PTT Control IP Terminal

VOIP Service + RoIP Service + RTSP CCTV Video Display



AP-PCT500
Remote Integrate Communication Control Terminal

Ordering Information

- **AP-PCT500 PTT Control IP Terminal Hardware**
  - RISC Microprocessor with High-end Programmable DSP Architecture
  - 12 Inch LCD Monitor (Touch Screen)
  - 3.5mm Audio Input/Output
  - 2-ports 10/100/1000Mbps Gigabit Ethernet and 1-port RS-232C Console
  - Rotary Switch for VHF, HF Frequency Channel Switch
  - 1-Port HDMI Video Output Port for Full HD Monitor Display
  - 1-Port PTT MIC Interface for Motorola PTT MIC. etc.
  - 1-Port USB Interface
  - Built-In HD Camera (Option)
  - Including Network Cable Set & Ext. Power Supply, etc.
- **Built-in APOS Internetworking Software for AP-PCT500**
- **Including 1 Year Hardware Warranty**
- **Product Documents**
  - Install and Operation Guide (PDF)
- **Pricing**
  - AddPac Technology Regional Sales Manager
  - Authorized Sales and Marketing Representatives
  - Please Contact www.addpac.com

Thank you!

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