



AP-PCT20

PTT Control IP Phone

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

Product Overview



AddPac

AddPac Technology

Sales and Marketing

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

AP-PCT20 PTT Control IP Phone

- PTT (Push to Talk) Control IP Phone Solution
- PTT : Handset, Headset, PTT Dedicate MIC.,
- RoIP (Radio over IP) Control Terminal Solution for Call Center
- High-Quality Audio and Voice Service
- High Performance Programmable DSP
- H.323 and SIP Dual VoIP Signaling Protocols
- Various VoIP Codec (G.722, G.711,G.726,G.729A,etc) Support for Satellite RoIP Service
- Two(2) 10/100Mbps Fast Ethernet
- XML Browser Support
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
- Audio/Video Privacy Protection

Product Highlights

AP-PCT20 PTT Control IP Phone

PTT Control IP Terminal & VoIP Telephony

IP PTT Phone Solution

Function Key, Menu KEY
Control

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

High Performance RISC CPU
& Programmable DSP

Handset, Headset, PTT
Dedicate MIC.
for PTT Service

12 Speed Dialing Keys
(12 Speed Dialing Key: 4 x 3)

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 10/100Mbps Fast
Ethernet

PoE (Power over Ethernet)
Function Support

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Hardware Specification

AP-PCT20 PTT Control IP Phone

High-end
DSP

- High-end Programmable DSP Hardware Architecture
- 12 Speed Dial Keys
- High quality Audio and Voice Interface
 - Stereo Audio Input & Output Connector
- Network Interface
 - Two(2) 10/100Mbps Fast Ethernet
- Power Supply
 - External Power Adaptor
 - PoE (Power over Ethernet) : Option
- PTT Mic. Interface : Ex. PTT Hand MIC.

Hardware Specification

AP-PCT20 PTT Control IP Phone

High-end
DSP

AP-PCT20 IP Phone	Basic Specifications
CPU	RISC Microprocessor
Ethernet Interface	2-Ports 10/100Mbps Ethernet Interface(RJ-45)
PSTN Backup FXO Port (Optional)	1-Port PSTN Backup Port(RJ-11)
Flash Memory	4Mbyte High-speed Flash Memory
Base Memory	16Mbyte High-speed SDRAM
Audio In/out Port	3.5mm Audio Input, Output Port
PTT (Push to Talk) MIC. Port	3.5mm PTT MIC. Input Port
Power Requirement	External Power Supply Adaptor / VAC 110~220V, 50/60Hz, 10Watt(5V,2A)
	Power over Ethernet (option)
Operating Temperature	0°C ~ 45°C (32 °F ~ 122°F)
Storage Temperature	-40°C ~ 85°C (-40°C ~ 185°F)
Relative Humidity	5% ~ 95% (Non-condensing)
Dimensions	H x W x D (70mm x 200mm x 210mm)
Weight (g)	1Kg

Hardware Specification

AP-PCT20 PTT Control IP Phone

High-end
DSP



PTT MIC. (Motorola)

Hardware Specification

AP-PCT20 PTT Control IP Phone

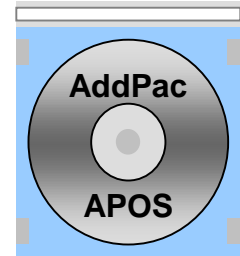
High-end
DSP



Software Service

AP-PCT100 PTT Control IP Phone

- Built-in AddPac APOS Internetworking Software
 - Scalability, Functionality, and Stability Features
 - Voice Traffic QoS Control
- Programmable Audio, and Voice Services
 - Audio, and Voice 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

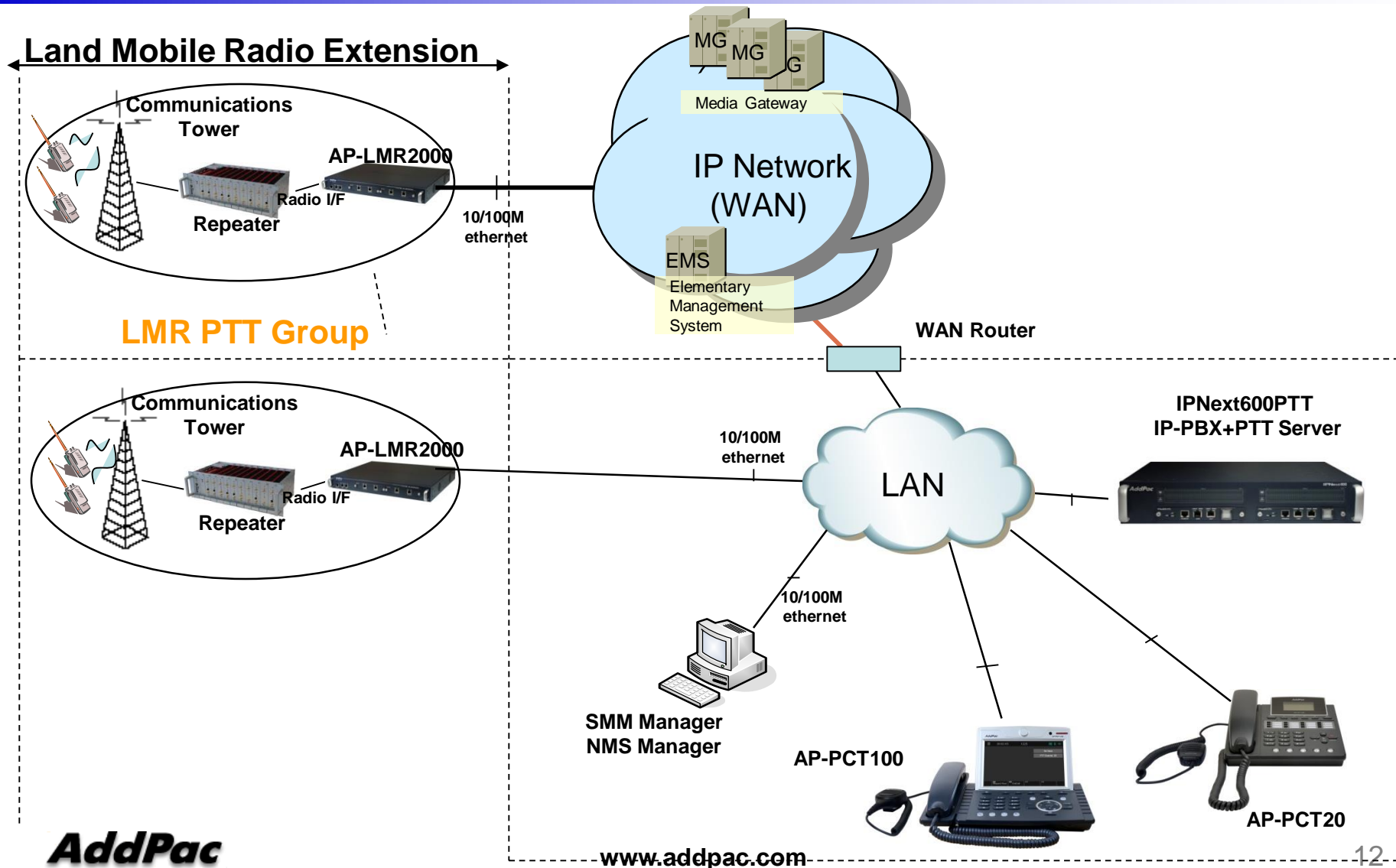


Voice PTT (Push-to-Talk) Service Features

Contents

- PTT Service Network Diagram
- AddPac PTT Service Features
- 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

Audio & Voice Service and Features

AP-PCT20 PTT Control IP Phone

- **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 Support
- **High-performance Audio & Voice Codec Support**
 - Line IN/OUT : G.711, G.726, G.729ab, G.723.1 Audio Codec, etc
- **Enhanced QoS Management Features for Voice Traffics**

Network Service and Features

AP-PCT100 PTT Control IP Phone

- **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 Private Dial-up Network : L2TP Server)

Network Service and Features

AP-PCT20 PTT Control IP Phone

- **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

AP-PCT20 PTT Control IP Phone

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

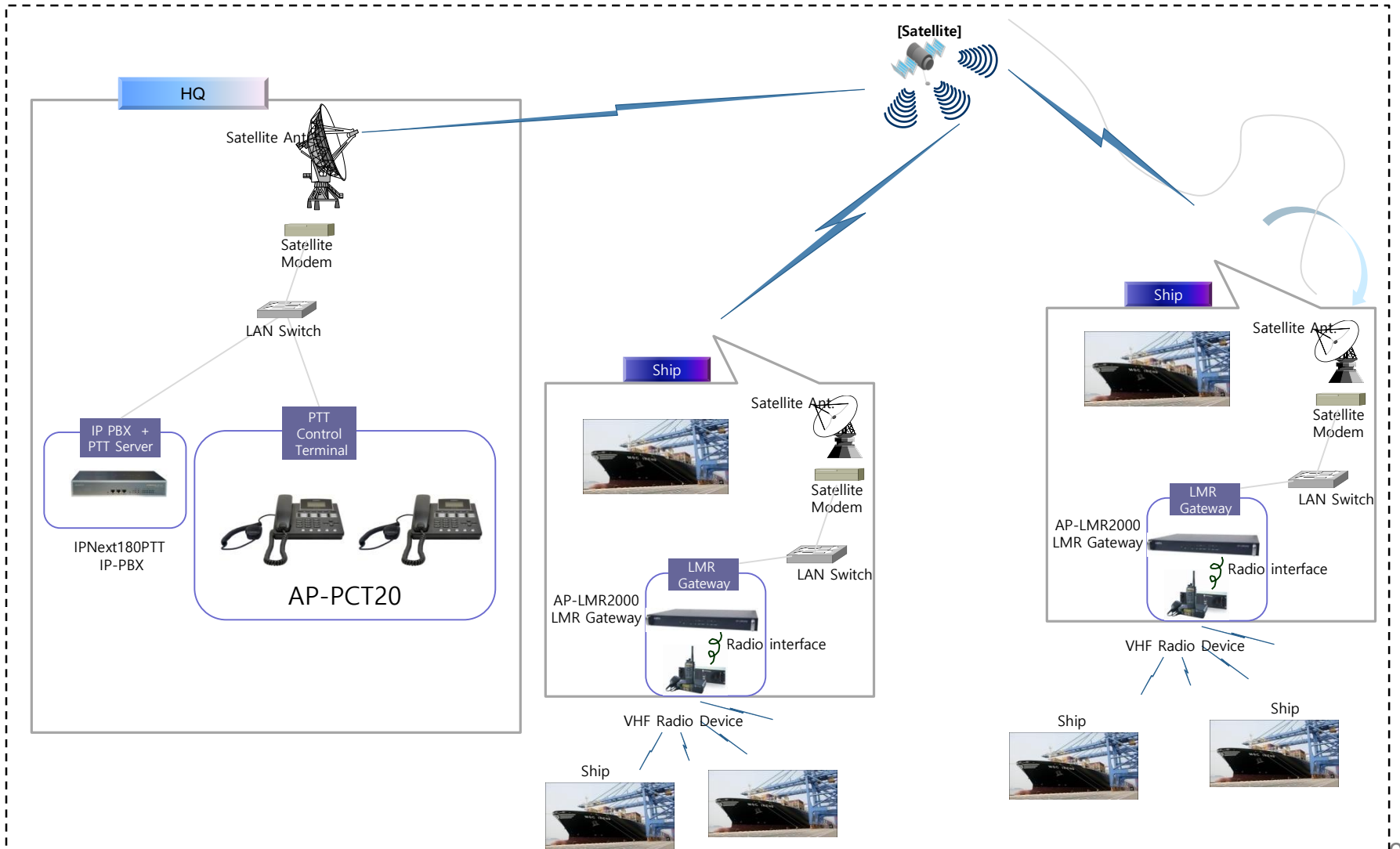
Network Service and Features

AP-PCT100 PTT Control IP Phone

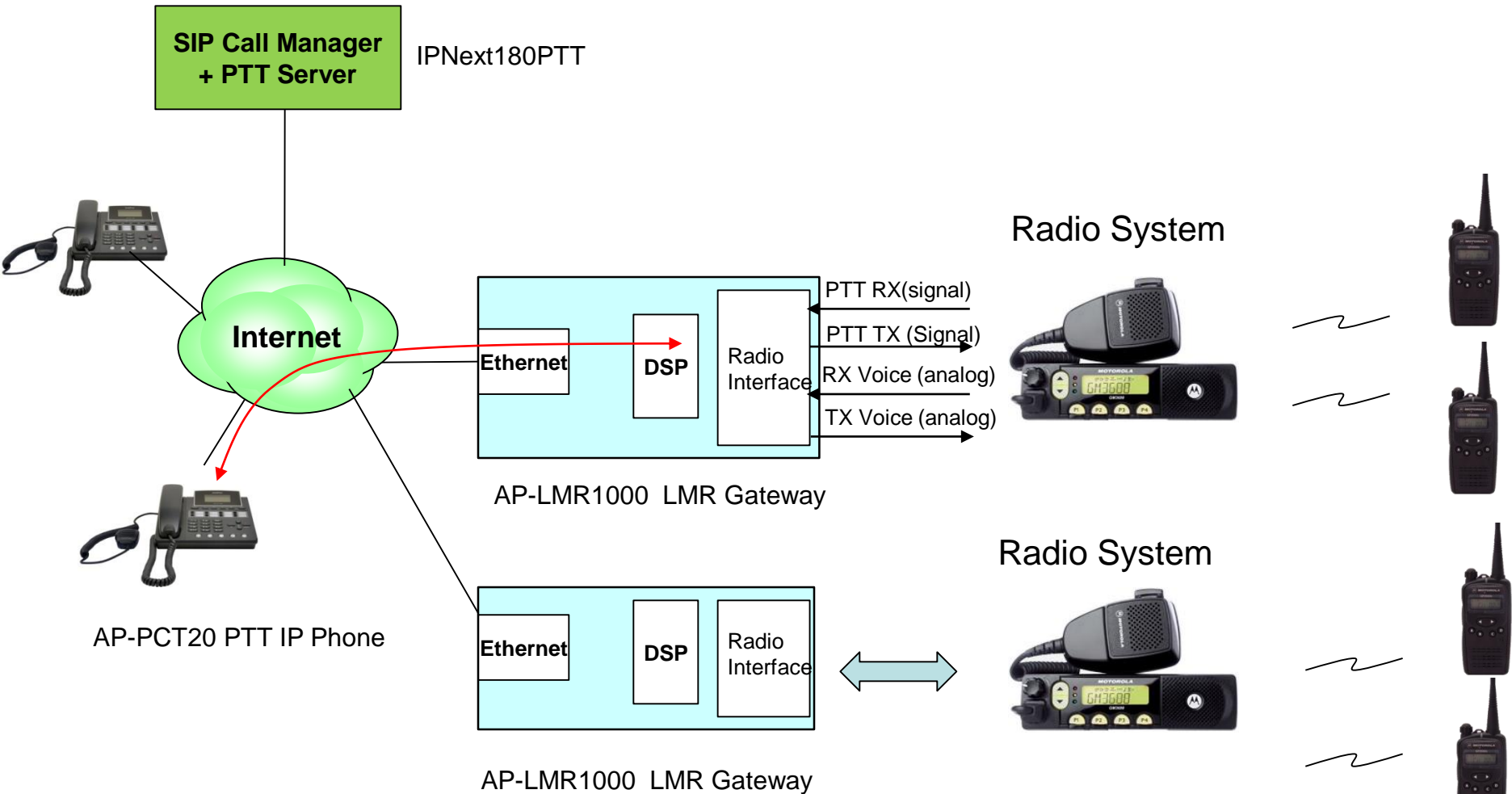
- **SNMP MIBs**
 - MIB-II
 - RMON MIBs (Statistics, History, Alarm, Hosts Group)
 - RFC2465 Management Information Base for IP Version 6: Textual Conventions and General Group
 - RFC2466 Management Information Base for IP Version 6: ICMPv6 Group
 - RFC2452 IP Version 6 Management Information Base for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

Network Diagram

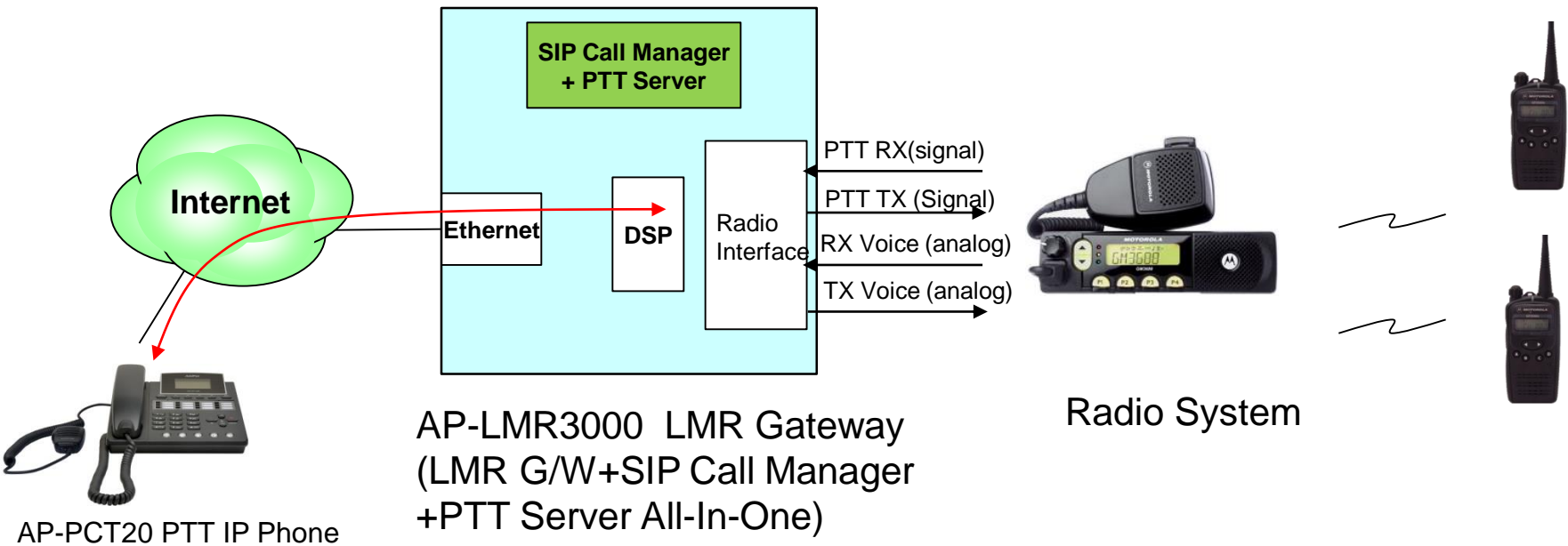
Satellite RoIP Service Application



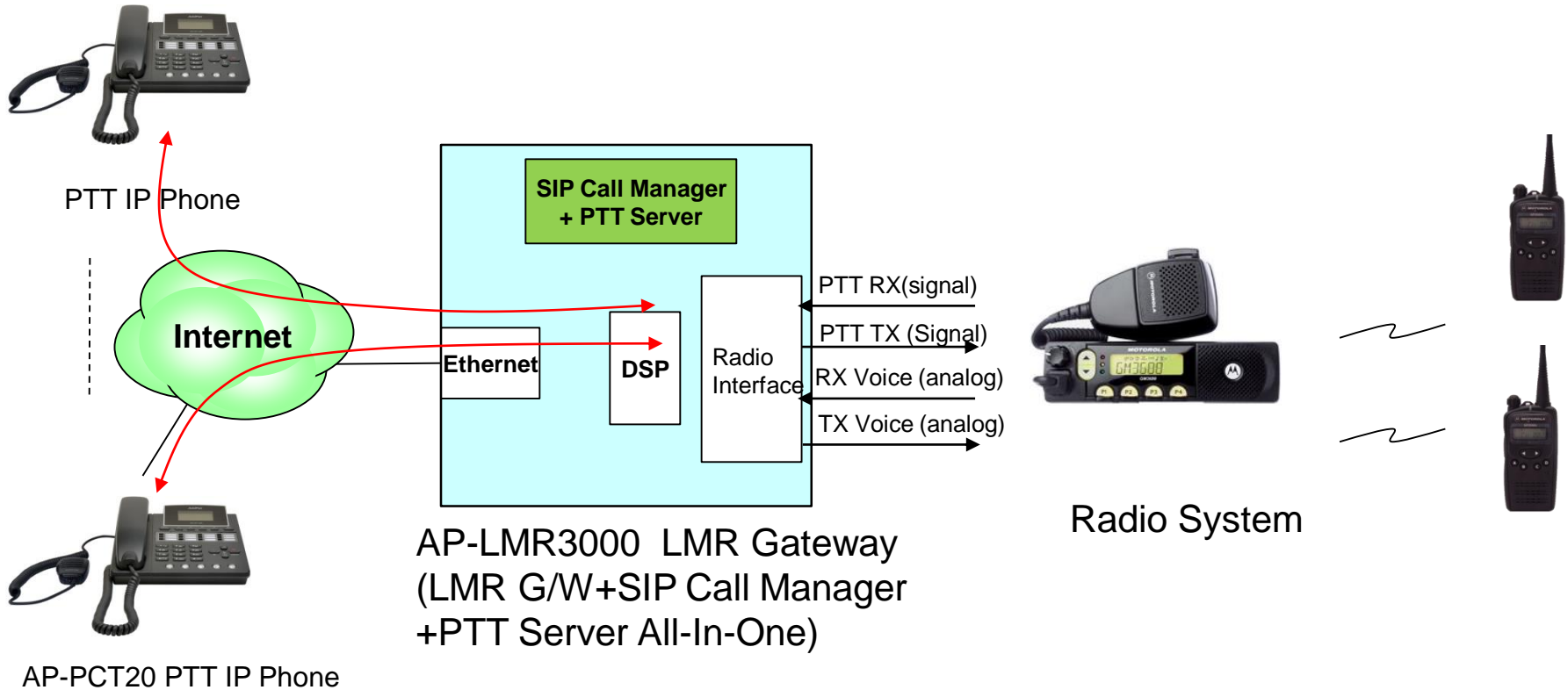
General PTT IP Phone Network Diagram



1 : 1 PTT IP Phone Registration to LMR G/W



1 : N PTT IP Phone Registration to LMR G/W



Ordering Information

- **AP-PCT20 PTT Control IP Phone Hardware**
 - RISC Microprocessor with High-end Programmable DSP Architecture
 - 12 Speed Dial key
 - 3.5mm Audio Input/Output
 - 2-ports 10/100Mbps Fast Ethernet
 - 1-Port PTT MIC Interface for PTT MIC. etc.
 - Option : PoE Interface, PTT Hand MIC.
 - Including Network Cable Set & Ext. Power Supply, etc.
- **Built-in APOS Internetworking Software for AP-PCT20**
- **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!

AddPac Technology Co., Ltd.
Sales and Marketing

Phone +82.2.568.3848 (KOREA)

FAX +82.2.568.3847 (KOREA)

E-mail sales@addpac.com