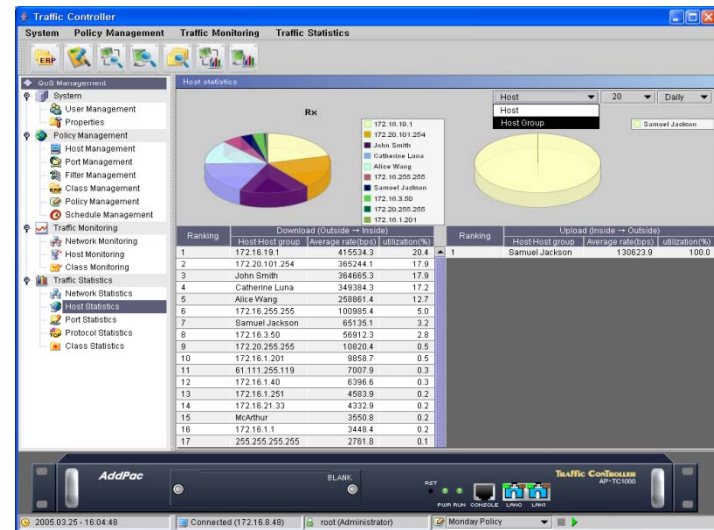# AP-TC1000
Traffic Controller

Next Generation QoS Routing Solution

AddPac Technology

2013, Sales and Marketing

www.addpac.com

Contents

- Product Overview
- Product Road Map
- Hardware Specification
- Software Service
- QoS Service and Features
- Network Service and Features
- Application Area
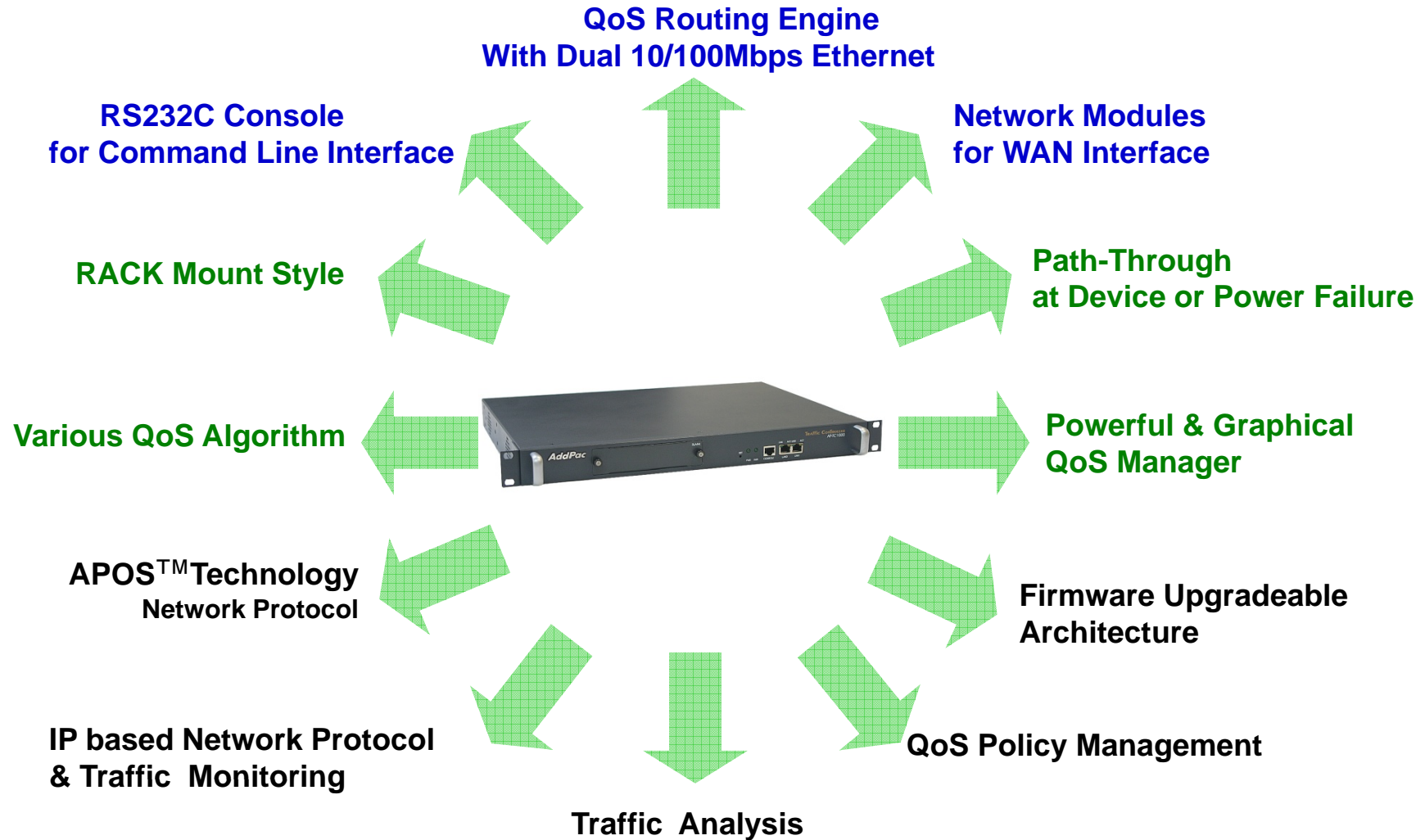- QoS Manager
- Ordering Information

Product Overview

- Embedded Hardware System and Real-Time OS

- LAN-to-LAN QoS Routing

- Various Network Interface Module Such as ATM, POS, V.35,etc

- Support Various QoS Algorithm & Police

- Powerful Management and User Friendly Features

- Graphical QoS Manager

- CLI Interface for Detailed Control

- Firmware Upgradeable Architecture

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Product Highlights

**QoS Routing Engine
With Dual 10/100Mbps Ethernet**

**RS232C Console
for Command Line Interface**

**Network Modules
for WAN Interface**

RACK Mount Style

**Path-Through
at Device or Power Failure**

Various QoS Algorithm

**Powerful & Graphical
QoS Manager**

**APOS™ Technology
Network Protocol**

**Firmware Upgradeable
Architecture**

**IP based Network Protocol
& Traffic Monitoring**

QoS Policy Management

Traffic Analysis

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4

Hardware Specification

- **High-End RISC Microprocessor Computing Power**

- **Main Chassis**
  - Fixed Network Interface
    - LAN 0 : 10/100Mbps Fast Ethernet
    - LAN 1 : 10/100Mbps Fast Ethernet
    - One(1) RS-232C Console (RJ45)
  - One(1) Network Interface Module Slot for WAN Access

Network Interface Module   Console LAN0 LAN1

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Hardware Specification

ATM
SAR

V.35

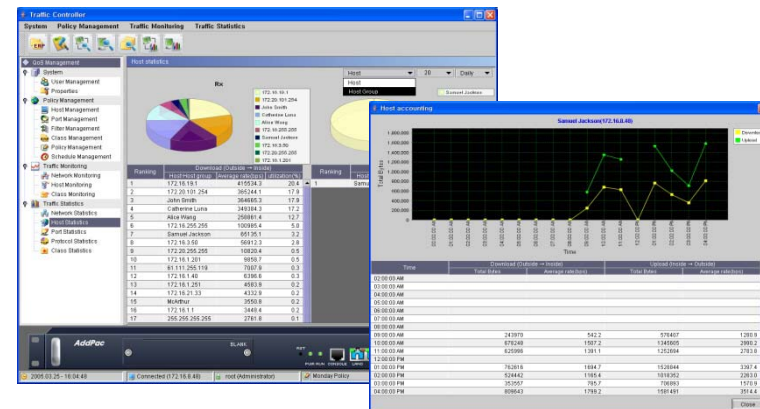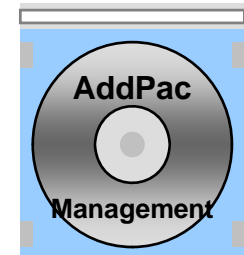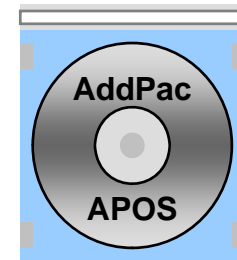- **Network Module**

AIM-ATMOC3-1		1-Port OC3 155Mbps ATM Network Interface Module
AIM-ATMDS3-1		1-Port DS3 45Mbps ATM Network Interface Module
AIM-ATM1E1		1-Port ATM E1 Network Interface Module
AIM-V35FR1		1-Port V.35 Interface Module
AIM-V35FR2		2-Port V.35 Interface Module
AIM-V35FR6		6-Port V.35 Interface Module

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Software Service

- **Built-in AddPac APOS Internetworking Software**
  - LAN-to-LAN QoS Routing Features
  - WAN Interface Features
  - QoS Policy, Traffic Monitoring & Analysis

- **Firmware Upgradeable Architecture**

- **Industry Standard Network Protocol Features**

- **Highly User Friendly Management Features**
  - Smart Traffic Controller Manager

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APOS

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Management

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7

QoS Service and Features

- Queuing and Traffic control
  - CBQ (Class-based Queuing)
  - FIFOQ (FIFOQ (First-In First-Out Queue)
  - PRIQ (Priority Queuing)
  - HFSC (Hierarchical Fair Service Curve)
  - RED (Random Early Detection)
  - RIO (RED with In/Out)
  - BLUE
  - JoBS
  - WFQ (Weighted Fair Queuing)
- ECN (Explicit Congestion Notification) RFC3168 support
  - Packet marking/remarking (DSCP, ToS, Precedence)
  - ECN support in TCP
  - Fragment/tunnel handling in IPv4/IPv6

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QoS Service and Features

AP-TC1000 Traffic Controller

Queuing and Traffic control	CBQ (Class-based Queuing)
	FIFOQ (FIFOQ (First-In First-Out Queue)
	PRIQ (Priority Queuing)
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ECN (Explicit Congestion Notification) RFC3168 support	Packet marking/remarking (DSCP, ToS, Precedence)
	ECN support in TCP
	Fragment/tunnel handling in IPv4/IPv6

Network Service and Features (Cont..)

AP-TC1000 Traffic Controller

- Basic Routing Function
  - IPv4/IPv6 Dual Stack
  - Management
    - Telnet, FTP, TFTP, SSH, SNMP, Syslog support
    - Packet filtering (Access-list)
  - Routing
    - Static, RIP, RIPng, OSPFv2/v3, BGP4

- QoS Routing Support.
  - Source Address based routing
  - DSCP based Routing
  - Service Class based routing

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Network Service and Features (Cont..)

- Network Managements
  - Cisco CLI based.
    - ➢ access-list, class-map, policy-map, service-policy
  - SNMP Support
    - ➢ Support same QoS functions with Cisco CLI
  - Embedded HTTP Server
  - Classify and Control
    - ➢ Cisco class-map and policy-map Based
    - ➢ Automatic
  - Traffic Monitoring and Report
    - ➢ Utilization, Top Users and Application, Traffic History
    - ➢ Active Flows
  - Event Notification
    - ➢ SNMP Trap, E-mail, Syslog

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Network Service and Features

- Security Functions
  - Standard & Extended IP Access List
  - Enable/Disable for Specific Network Protocols
  - Multi-level User Account Management
  - Auto-disconnect for Telnet/Console Sessions
  - PPP User Authentication Supports (PAP & CHAP)
- Operation & Managements
  - System Performance Analysis for Process, CPU, Connection Interface
  - Debugging, System Auditing, and Diagnostics Support
  - System Booting and Auto-rebooting with Watchdog Feature
  - System Managements with Data Logging
  - IP Traffic Statistics with Accounting

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QoS Manager (Example)

AP-TC1000 Traffic Controller Manager

QoS Manager (Example)

AP-TC1000 Traffic Controller Manager

QoS Manager (Example)

AP-TC1000 Traffic Controller Manager

QoS Manager (Example)

AP-TC1000 Traffic Controller Manager

AP-TC1000 Traffic Controller

Network Interface Diagram

AP-HVC1000
HD Video Codec

Internet

[WAN Router]

AP-TC1000

QoS Control

LAN 10/100M

LAN 10/100M

LAN 10/100M

LAN 10/100M

LAN 10/100M

LAN

LAN 10/100M

LAN 10/100M

AP-HVC1000
HD Video Codec

AP-VP300
Video Phone

AP-VP300
Video Phone
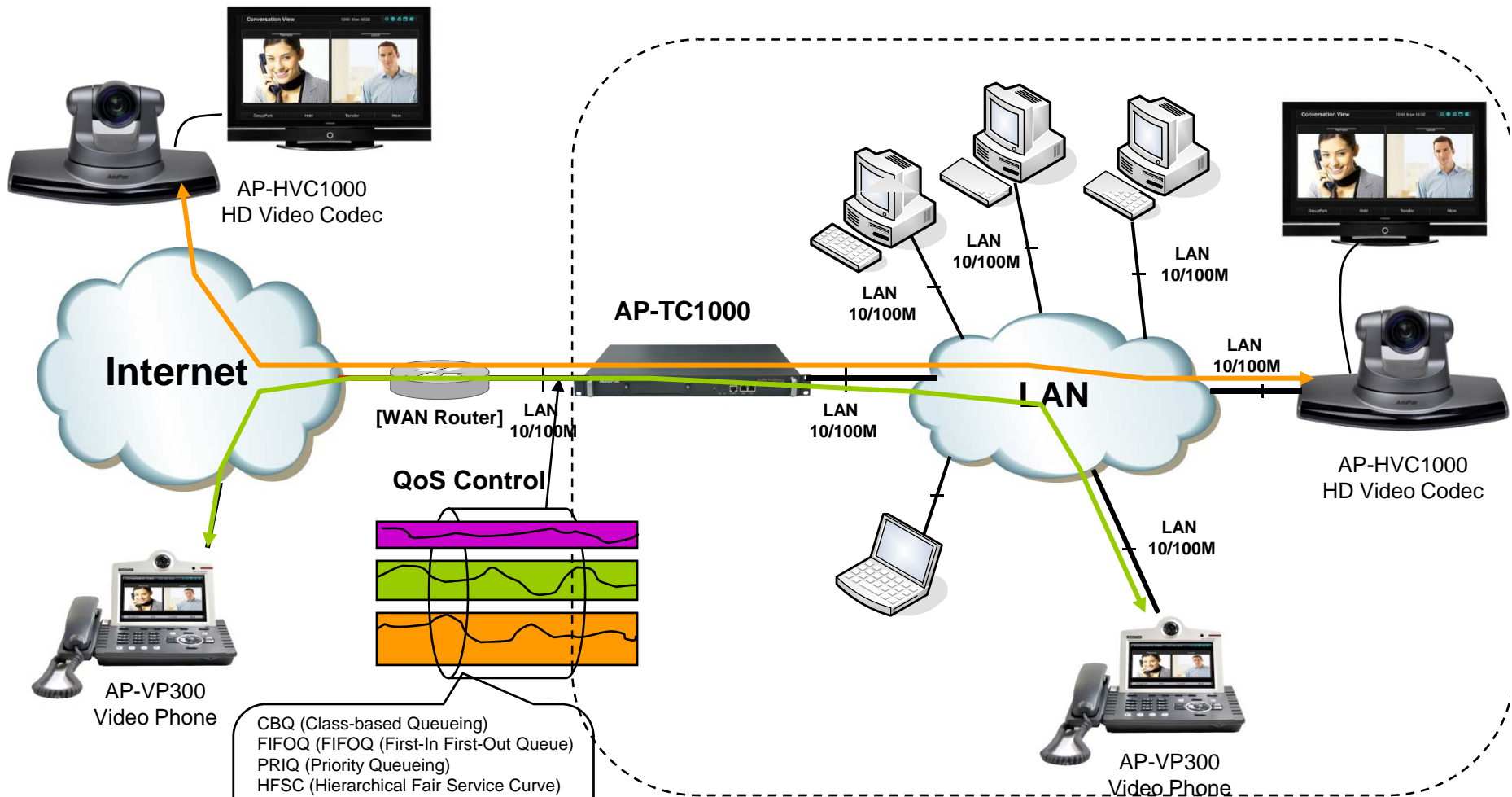
CBQ (Class-based Queueing)
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17

AP-TC1000 Traffic Controller

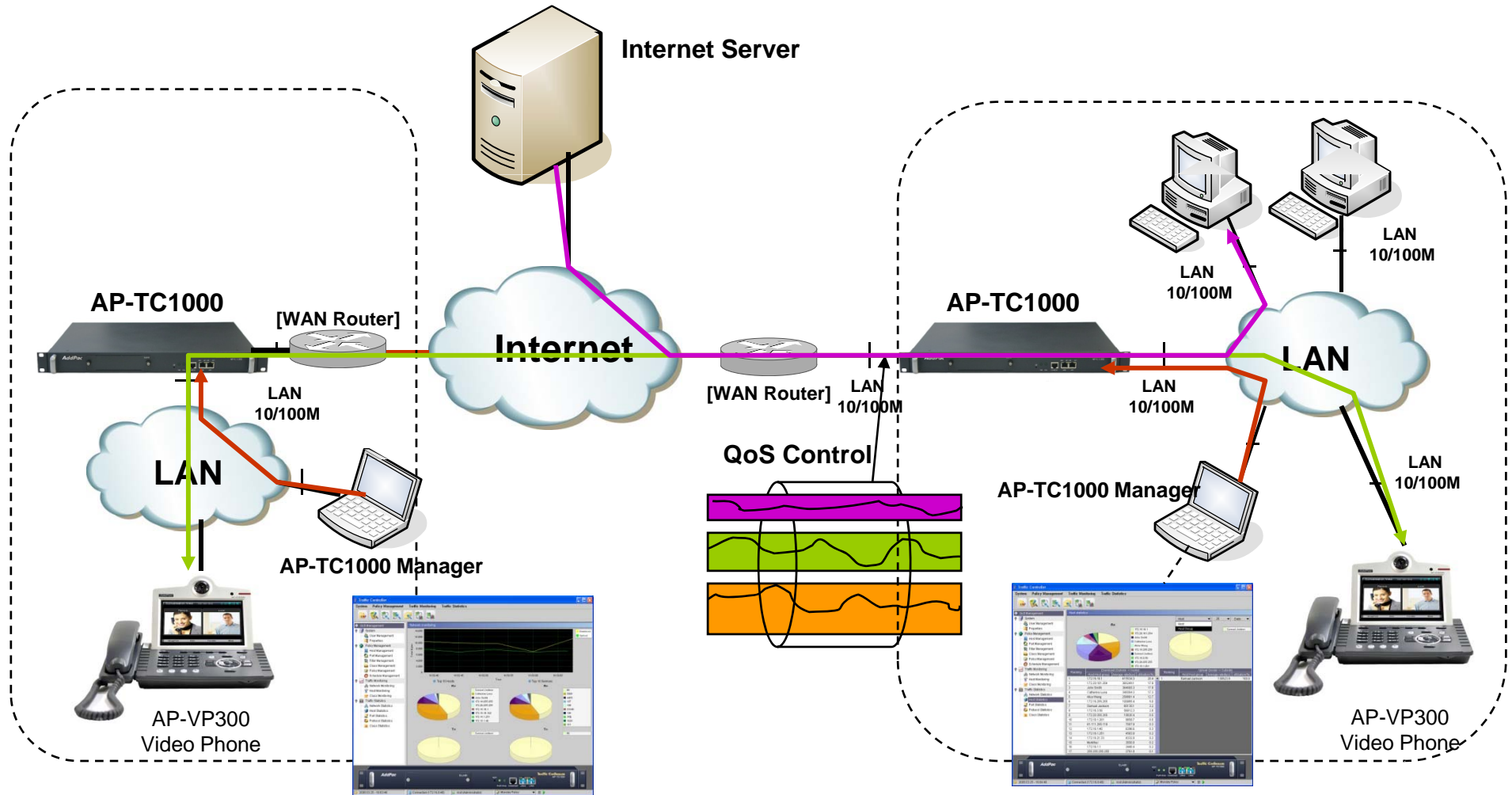## Network Interface Diagram

AP-TC1000 Traffic Controller

Network Interface Diagram with Call Manager

Internet Server

Internet

[WAN Router]

LAN 10/100M

AP-TC1000

LAN 10/100M

LAN 10/100M

3

2

1

4

LAN

LAN 10/100M

LAN 10/100M

AP-HVC1000 HD Video Codec

IPNext3000 IP-PBX

AP-VP300

AP-TC1000 Manager

QoS Control

LAN 10/100M

AP-IP160

AP-IP300

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19
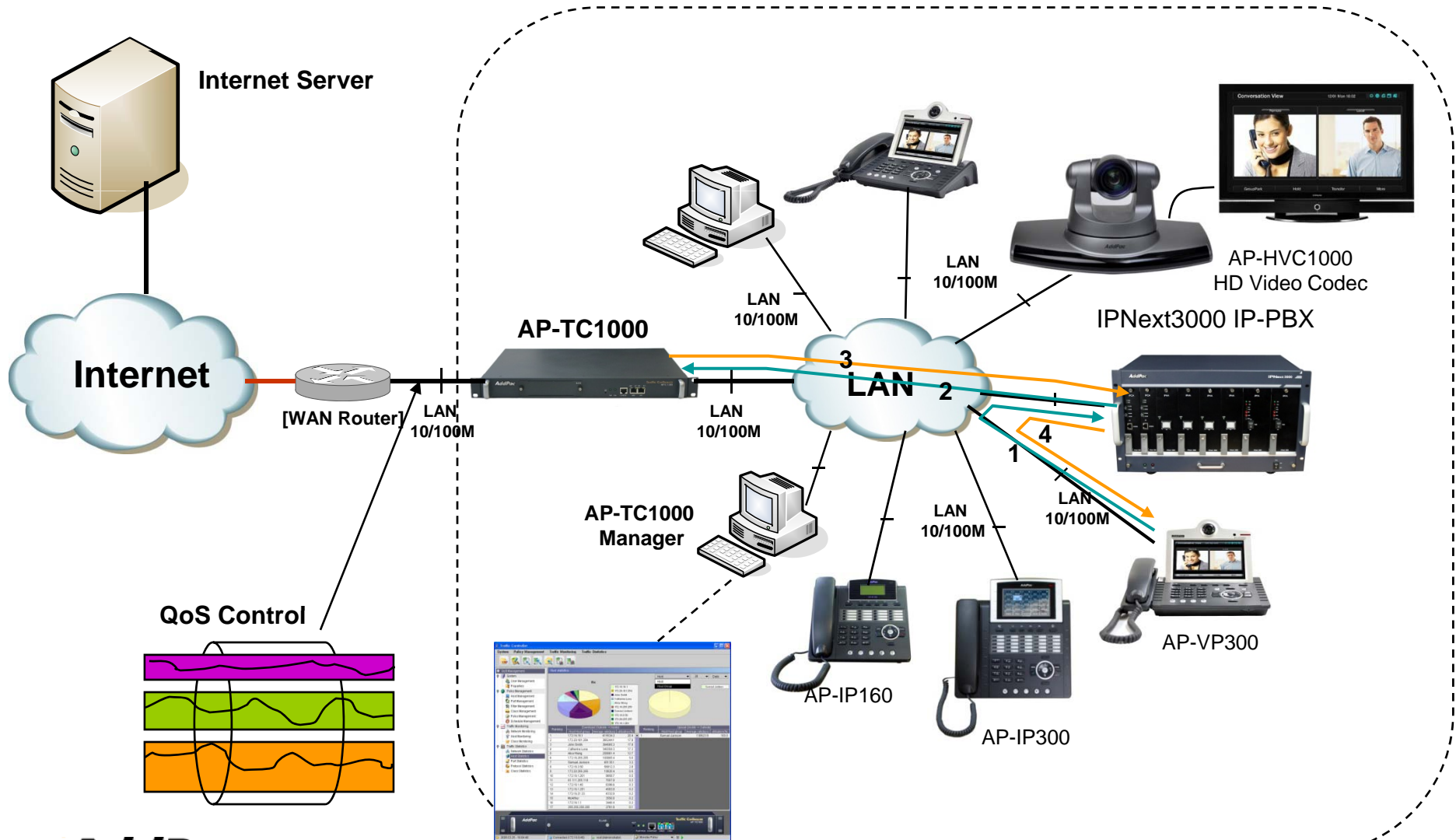
Ordering Information

- AP-TC1000 Traffic Controller
  - AP-TC1000 Traffic Controller Main Body
  - High-performance 64bit RISC CPU
  - 2-ports 10/100Mbps Fast Ethernet and 1-port RS-232C Console
  - One(1) Network Interface Module Slot for WAN Access
  - Including Network Cable Set & Ext. Power Supply, etc.
- Built-in APOS Internetworking Software for AP-TC1000
- 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

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Thank you!

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Sales and Marketing

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