IPTV System Solution Servers for 200 End Users

OEM under PROMA DVB HD Brand — For Thailand Market

Product Overview

The IPTV System Server is designed to deliver high-quality video streaming solutions to up to **200 end users simultaneously**. It supports multiple IPTV functions, including **Live TV**, **VOD (Video on Demand)**, **RCU (Remote Control Unit)**, and **customized UI**. The system is based on the **SKD3210 platform**, ensuring stable, efficient, and scalable service for hotels, hospitals, and residential projects.

Key Features

- **Concurrent Users**: Supports up to **200 simultaneous IPTV clients**.

- **Protocols Supported**: UDP / RTP Multicast, HTTP, HLS, RTSP.

- **VOD (Video On Demand)**: Integrated VOD server supporting MPEG-2, MPEG-4, H.264, H.265 formats.

- **Live TV Streaming**: Supports IPTV live channel streaming with minimal latency.

- **RCU (Remote Control Unit)**: Full RCU support for seamless TV control and menu navigation.

- **Middleware and UI**: Customized UI available; hotel or corporate branding can be integrated.

- **EPG (Electronic Program Guide)**: Real-time program guide supported.

- **Multiscreen Compatibility**: Supports Smart TVs, Android TV Boxes, and Mobile Devices.

- **Storage**: Built-in SSD/HDD for VOD content storage (expandable).

- **IPTV Gateway Integration**: Compatible with DVB to IP gateway systems.

- **SKD3210 Datasheet Reference**: Industrial-grade reliability, 24/7 operation, with hardware decoding optimization.

- **Management System**: Web-based administration portal for user management, monitoring, and analytics.

Technical Specifications

Specification	Details
Maximum Users	200 Users Concurrent
Input Protocols	UDP, RTP, HTTP, HLS, RTSP
Video Codecs	MPEG-2, MPEG-4, H.264, H.265
Storage Options	500GB / 1TB SSD or expandable
Power Supply	100–240V AC, 50/60Hz
Operating Temperature	0°C – 45°C
Network Interfaces	2 x Gigabit Ethernet Ports
Physical Design	1U Rackmount Server
Control and Monitoring	Web UI, SNMP Support
OEM Branding	PROMA DVB HD Logo / Interface

Advantages

- **Local OEM for Thailand Market** — Tailored for hotel and enterprise deployments in Thailand.

- **High Reliability** — 24/7 operation stability with industrial-grade components.

- **Cost-Effective Solution** — Professional-grade IPTV deployment at competitive pricing.

- **Easy Integration** — Seamless connection with existing IPTV gateways and broadcasting systems.

Brand: PROMA DVB HD
Manufactured for: Thailand Market (OEM)
Platform: SKD3210 Datasheet Based
Application: Hotels, Hospitals, Condominiums, Office Buildings

Specific System Behavior

IPTV Input

- The server can **ingest up to 50 IPTV channels** via **UDP Multicast** from external sources.

- Suitable for standard hotel, condominium, apartment, and commercial building IPTV deployments.

IPTV Output

- The system can **redistribute all received channels via UDP Multicast** within the internal network.

- It supports **an unlimited number of end users** accessing the IPTV service, depending on available network bandwidth and proper multicast management (IGMP Snooping/Querier enabled).

Transmission Technology

- **IGMP (Internet Group Management Protocol)** is utilized to efficiently manage multicast traffic, ensuring that only requested streams are delivered to end-user devices, reducing unnecessary network load and enhancing system stability.

Simple Summary

"Up to 50 IPTV channels can be ingested and redistributed to an unlimited number of users over a UDP Multicast network with high efficiency and reliability."

Highlight

- **Input Limit**: 50 channels maximum

- **Output Capability**: Unlimited users via UDP Multicast

- **Protocol**: UDP Multicast with IGMP Management

- **Application**: Hotels, Hospitals, Condominiums, Office Buildings

- **OEM Branding**: PROMA DVB HD