
Pinhorn Network Gateway Reference Platform Product Brief



Product Overview

Pinhorn Network Gateway Reference Platform is a richly-featured gateway reference platform based on the Intel® IXP425 network processor. With its comprehensive software support, Pinhorn is a coverall reference platform supporting integrated voice, data and wireless gateway functionality for the residential, SOHO markets.

This platform design comes with a wide range of physical interfaces such as two mini-PCI interfaces, MII and GMII connectors that support advanced LAN/WAN technologies. This modularized approach enables OEMs to bring IXP425-based products to market faster, at low cost and with less development risk. When customized product designs are needed, Flexcomm can quickly catch up based on Pinhorn platform to meet the expert product requirements.

Applications

- Network Attached Storage
- VoIP Gateway
- FTTH/FTTP ONU
- VPN/Firewall
- VDSL 2/ADSL 2+ SOHO Router

Product Highlights

- Onboard Intel® IXP425 network processor at 533MHz
- 5 10/100/1000Mbps Ethernet switched ports for LAN interface
- 1 GMII connector for EPON ONU module
- 1 MII connector for VDSL module
- 2 FXS ports for analog phone connections,
- 1 PSTN port for switching random FXS ports to central office in failover mode
- 2 USB2.0 high speed host interface
- 2 Mini-PCI connector and USB host controller on board for expandable features

Hardware Features

| | | |
|----------------------------|-------------------|--|
| Processor | Network Processor | Intel® IXP425 533MHz |
| | | Flash up to 16MB |
| | | SDRAM up to 128MB (pad-out) |
| Network | LAN/WAN | 10/100/1000 Ethernet LAN 10/100/1000 Ethernet WAN |
| | Wi-Fi | 802.11n, Type III miniPCI slot |
| Data | USB 2.0 | Two USB 2.0 ports at front panel |
| Physical char | Dimension | 115mmx90mmx27.5mm |
| Hardware components | Accessories | 5xEthernet Cables |
| | | 1xBrick Power supply |
| | | 1xPatch Cord (Fiber Optic Cable) |
| | | 1xCat 3 Cable With Male RJ11 Connectors |
| | | Plug-in Modules |

ONU Card



ONU Card Highlights

- Fully IEEE802.3ah EPON ONU functionality compliant
- Single fiber bi-directional data links with symmetric 1.25Gbps stream
- 1 GMII connector
- Dimension: 115mmx90mmx27.5mm