

PI-25 pro

Datasheet



Product Overview:

The PI-25 Pro Edge Router by Piscis Networks is a high-performance SD-WAN-enabled router designed for branch locations requiring robust, scalable, and secure network connectivity. It is tailored for diverse transport options like 5G, 4G, and wired broadband to provide seamless, high-speed internet and VPN connections. The PI-25 Pro supports a wide range of enterprise-grade features, including multi-link failover, load balancing, dual SIM connectivity, VPN support, and advanced security features, making it ideal for businesses aiming to enhance operational efficiency and secure communications.

Key Features:

1. Gigabit Ethernet Ports:

- 4x Configurable Gigabit Ethernet L3 ports (10/100/1000 BaseT) supporting both LAN and WAN modes.
- Ports are convertible between LAN and WAN as per client requirements.

2. Dual SIM Connectivity:

- Built-in support for Dual SIM slots (no external dongle required) for LTE/4G/5G connectivity.
- Automatic detection of SIM cards with network selection based on band quality for uninterrupted service.

3. 5G Upgradability:

- Future-proof with 5G readiness for enhanced data speeds and reliability.

4. External Antenna Support:

- Supports external antennas for improved signal reception in remote areas.

5. Local Management Interface:

- Local GUI for quick and easy device management and configuration.

6. Advanced Firewall & Security:

- Supports Stateful Firewall with custom traffic rules based on IP, ports, and protocols.
- Includes URL filtering, web filtration, and IPS/IDS for network security.
- Anti-malware, Anti-spyware, DDoS prevention, and port scan prevention.
- Application-layer traffic inspection for deep security monitoring.

7. Centralized Management:

- Remote configuration via centralized controller, enabling global management of edge devices.
- Zero Touch Provisioning (ZTP) support.

8. Flexible Transport Media:

- Supports 5G, 4G, and wired broadband (RJ45) for WAN links (PPPoE, DHCP, Static IP).
- Seamless link failover and switchover based on packet loss, latency, and jitter.

9. Load Balancing & Failover:

- Active-Active load sharing/load balancing across all available links.
- Seamless failover/switchover between links in real-time without traffic disruption.
- Supports load balancing based on destination IP address and application.

10. Quality of Service (QoS):

- Prioritization of traffic based on rules for optimal network performance.
- Real-time visibility into packet flows, latency, and packet loss.

11. Session Management:

- Supports 1000+ sessions per second for enterprise-grade performance.

12. Virtual Private Network (VPN):

- Supports SSL VPN, Layer 2/3 VPN, L2TP, IKEv1, IKEv2, and up to 4x IPSec VPN tunnels.
- VPN traffic encryption with DES/AES and support for PSK and Certificate authentication.

13. Failover & Path Optimization:

- Edge devices auto-detect the best available path based on packet loss, latency, and jitter, ensuring optimal routing.

14. Link Bonding & Load Sharing:

- Multiple algorithms for link bonding and load sharing, ensuring efficient use of available bandwidth.

15. Multi-Cast and Network Segmentation:

- Supports multicasting over VPN and advanced network segmentation features to divide networks securely.

16. VLAN Support:

- Supports VLAN tagging and VLAN filtering for network segmentation.

17. SNMP Support:

- Compatible with SNMP v1/v2/v3 for network monitoring.

18. Attack Prevention:

- Comprehensive security suite including DNS protection, Anti-malware, Anti-spyware, IPS/IDS, and DDoS prevention.

19. Firmware & Software Management:

- Remote and scheduled firmware upgrades with real-time alerts and diagnostics.
- Local and central firmware upgrades for easy maintenance.

20. Diagnostics & Reporting:

- Real-time visibility into CPU, memory utilization, bandwidth usage, and link status.
- Detailed diagnostics with tools for troubleshooting latency, jitter, and packet drops.

21. Physical Specifications:

- Wall and rack-mountable design, allowing flexibility in deployment.
- Operating temperature support up to 45°C for harsh environments.

22. Real-Time Monitoring & Alerts:

- Real-time alerts for link down, failover, and network performance.
- Comprehensive alert and monitoring system for performance and security breaches.

Technical Specifications:

- Ports: 4x Configurable Gigabit Ethernet L3 (10/100/1000 BaseT).
- SIM Slots: Dual SIM (4G/5G).
- VPN: Supports IPSec, SSL, L2TP, IKEv1/IKEv2 with 5 encryption methods.
- Routing & Segmentation: VLAN, SNMP, Link Bonding, Static/Dynamic routing, Network segmentation.
- Security: Stateful Firewall, URL Filtering, IPS/IDS, DDoS protection, DNS Protection.
- WAN: Supports 5G, 4G, and wired broadband WAN with failover, load balancing, and traffic prioritization.
- Management: Centralized management with GUI and Zero Touch Provisioning (ZTP).
- Performance: Supports up to 1000 sessions/second, 300 Mbps throughput, and real-time failover.
- Temperature: Operates at up to 45°C.

Applications:

The PI-25 Pro is designed for a variety of applications across industries such as:

- Banking: Secure branch connectivity with high availability.
- Retail: Multi-branch connectivity with centralized management.
- Manufacturing: VPN-based remote access for OT environments.
- Telecommunications: Load balancing and failover for uninterrupted connectivity.

For more information, please visit www.piscisnetworks.com or contact us at sales@piscisnetworks.com.