

ADSL2+ Home Gateway

Sinope568+ R2

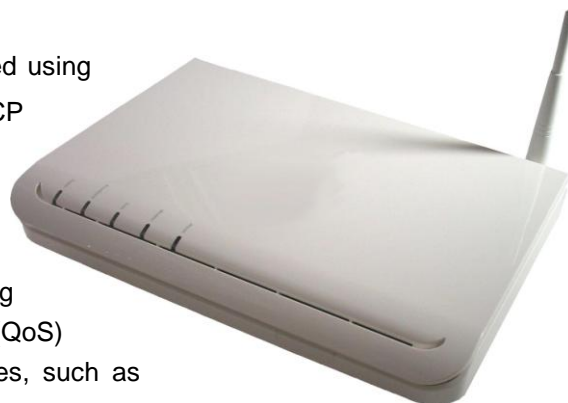


By introducing updated ADSL2+ access technology, Iskratel brings carrier class high-end networking solution for future triple play services, including multiple HDTV channel support. The Triple Play Home Gateway Sinope568+ R2 combines IP router and powerful home networking engine in single device. It enables service providers to offer WAN connections up to 24Mbps in downstream direction and up to 3Mbps in upstream direction with use of different ADSL2+ frequency spectrum profiles. The Sinope568+ R2 Home Gateway can be used in residential and SOHO solutions, to provide desired bandwidths even on longer subscriber loops.

The Home Gateway Sinope568+ R2 supports delivery of all triple play services: internet data, Voice over IP (VoIP) and IP video including bandwidth consuming HDTV. For packet based terminal devices it provides four local Ethernet ports as well as wireless access point IEEE 802.11g that brings relief to those troublesome wirings.

Additionally two ports for telephony services are provided using Voice over IP technology compatible with SIP or MGCP server environments.

With embedded firewall and IP sharing technology this Home Gateway delivers secure broadband Internet access to be shared by all connected clients. Featuring per port/VLAN/IP DiffServ functions, quality of service (QoS) can be easily achieved for real-time multimedia services, such as IPTV and telephony services.



Key Features and Benefits

- **Powerfull Home Gateway engine for offering 3Play services on broadband connectivity.**
- **Multiple interface options: Ethernet, FXS for POTS, WLAN**
- **Real 3Play proven Home Gateway to provide multiple HDTV IP streams**
- **Service separation and prioritization with bandwidth reservation**
- **Fully featured Router and Firewall, secure wireless transmitting and authentication**
- **Support for centralized management node of multiple CPE (e.g. controlled mass remote SW upgrade and auto configuration provisioning), TR-069 compliant**

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Technical specifications

Local Interface

- 4 port Ethernet 10/100Base-TX (RJ-45), complies with IEEE802.3 and IEEE802.3u
- Automatic MDI/MDIX crossover, Auto-negotiation and speed-auto-sensing, Half/Full duplex support
- Support for 802.1Q and 802.1p VLAN
- Internal 802.11g WLAN Access Point with external antenna
- 2x FXS (RJ-11) for POTS connection
- 1x FXO (RJ-11) for PSTN/PBX connection (optional)

WAN Specifications

- Copper pair loop, 100 ohm line impedance, RJ-11
- Comply with ADSL ITU-T G.992.1 (G.dmt), G.992.2 (G.lite), ANSI T1.413 i2, G.992.3 ADSL2 (G.dmt.bis), G.992.5 ADSL2+ (G.dmt.bis.plus)
- Support for Annex B, A, L and M (separate model for Annex B)

Bridging

- Transparent Bridging (IEEE 802.1D)
- RFC2684 (RFC1483) Bridged
- Spanning Tree Protocol (IEEE 802.1D)
- VLAN tagging (IEEE 802.1Q)
- Service based tagging (SBT)
- Supporting QoS (IEEE 802.1p)
- Supporting IP and PPPoE packets filter function
- Supporting Zero Installation PPP Bridge (ZIPB)
- IGMP transparent snooping

Routing

- IP routing: RIP1, RIP2, and static routing
- RFC2684 (RFC1483) Routed
- PPPoE client
- PPPoE pass-through
- DHCP client, server & relay (RFC2131)
- Dynamic DNS client & relay
- Multihoming (IP Aliasing)
- IP Multicast IGMP Proxy

Voice support

- Voice compressions G.711 (64kbps, A-law, μ -law PCM), G.729ab (8kbps)
- Asymmetric operation of audio coders (US and DS can have different coder types)
- Line Echo Cancellation G.168 with configurable tail
- Voice Activity Detection (VAD), Comfort Noise Generation (CNG)
- Adaptive jitter buffer and Packet Loss Compensation (PLC)
- DTMF (tone) dialing, modem/fax tone detection and pass-through
- Supports SIPv2 (RFC 3261), MGCP (RFC 3435), RTP (RFC3550)
- Supports RTP Profile for Audio and Video Conferences with minimal control (RFC 3551)
- Supports RTP payload for DTMF events (RFC2833)
- Caller ID (Type-1 and 2)

Security & QoS

- NAT (RFC3022) basic Firewall support with extensive ALG support
- Firewall with well known applications setup
- URL filtering
- Time Scheduler (parental control)
- DMZ/IP pass-through
- VPN pass-through
- ToS/DSCP to CoS mapping
- Bandwidth reservation
- Voice traffic prioritization

Note: some features are hardware dependant, some feature my not be included in dedicated software release

Configuration & Network Management

- UPnP
- Easy sign-on
- Simple port configuration
- DHCP server for IP management
- Telnet for local or remote management
- WEB for firmware upgrade and configuration
- WEB-based configuration and management (multi-level GUI)
- Centralized SI3000 CPE Management Node as option: solid DB, FTP with auto identification
- TR-069 data-frame model support, including TR-098, TR-104 and TR-106
- Possible reconfiguration of WAN connection mode, WAN acting as ADSL2+ or Ethernet.

Wireless

- Virtual AP support (Multi SSID)
- WEP: 64 or 128 bits key length
- WPA (Wi-Fi Protected Access) in PSK mode or using EAP with RADIUS
- Access control list based on MAC address
- WDS (Wireless Distribution System) to work as main, relay or remote base station

Visual Indicators

- Power – indicates power status
- Broadband – indicates DSL connection status
- Data – indicates LAN connection status.
- Wireless – indicates status of WLAN
- Phone – indicates VoIP is ready

Power

- External 115-230 VAC, 50 - 60 Hz, 12VDC 1,25A
- Power consumption, less than 10W

Physical Dimensions

- (W x D x H) 260mm x 185mm x 40mm, 0.3 kg

Environment

- Operating Temperature: 0°C ~ 45°C, Humidity: 5% ~ 95% (non condensing)
- Storage Temperature: -20°C ~ +85°C, Humidity: 5% ~ 95% (non condensing)

Certification

- CE mark, CB, RoHS compliant

