



UScale S132/S196/S1224 Datasheet

The UScale Integrated Access Device (IAD)

(S132/S196/S1224) is designed for IP telephony networks and unified communications solutions, enabling traditional analog users to access IP telephony networks.

By repurposing existing analog telephones, the UScale S132/S196/S1224 helps reduce initial investment costs for building IP telephony networks. S series IAD gateway seamlessly migrate traditional analog telephones to modern IP voice networks, providing carrier-grade business continuity assurance.

UScale S Series IAD Products supports 8 to 224 analog user channels to accommodate access scenarios with varying user capacities.

Product Overview



Product Features

Adaptable to Multiple Solutions

- Integrated IP telephony networks, UC, IMS (IP Multimedia Subsystem), and NGN (Next Generation Network) solutions for analog user access

Comprehensive product portfolio to meet diverse requirements

- Offers 8-224 analog user channels to accommodate different user capacity requirements
- Rack-mount installation mode
- Flexible and simple deployment

High Reliability

- Multiple methods ensure highly reliable access, including dual-homing, dual-registration, and self-switching capabilities

Multiple management and maintenance methods

- Built-in web management interface for easy operation
- Supports bulk configuration

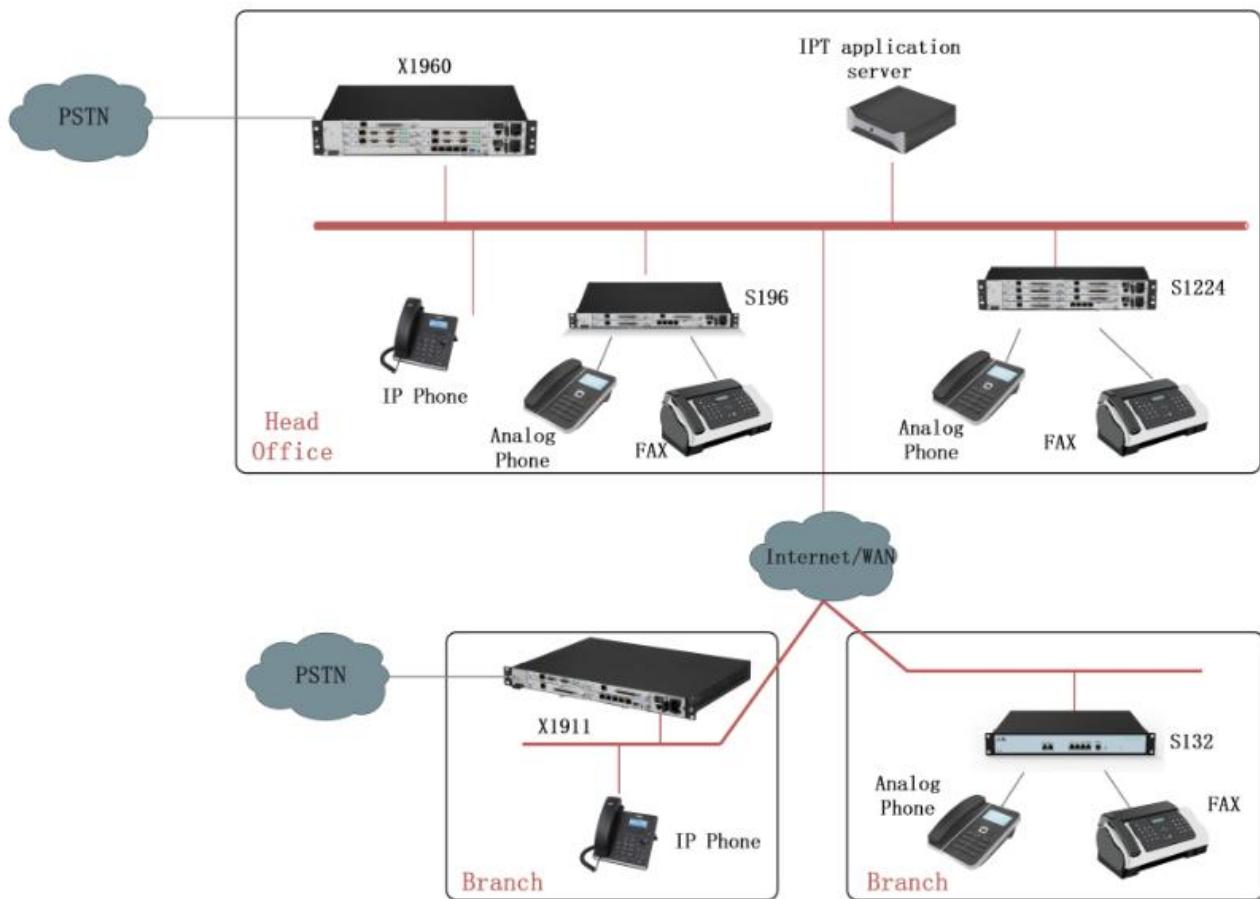
High-quality voice

- Multiple voice codecs ensure high-quality voice services

Typical

The UScale IAD S Series can be used in IP telephony network solutions and UC solutions to connect analog users in various scenarios, such as SOHO (Small Office Home Office) and small and medium-sized enterprise branches.

The UScale S Series can also be used in IMS and MGN solutions to connect remote analog users.



Functional Features

Physical Interface & Quantity	Call Features
➤ 8/96/224 FXS access ports with configurable port options, S132 supports the RJ45 interface, while S196/S1224 supports the DB68B interface.	➤ Call Waiting ➤ Blind Transfer ➤ Call Transfer ➤ Call Forwarding on Busy ➤ No-Answer Call Forwarding ➤ Unconditional Call Forwarding ➤ Hotline ➤ Message Indicator ➤ Supports SIP registration to multiple servers ➤ Call Hold ➤ Do Not Disturb ➤ Three-way calling ➤ Speed Dial
Network Interface	Software Features
➤ S132: 4 x 10/100/1000Mbps, Voice & Fax RJ-45 ➤ S196/S1224: 3 x 10/100M, RJ-45, Voice & Fax DB68B	➤ Ring Group Function ➤ Web Access Control List ➤ Telnet ACL ➤ Action URL ➤ PPPoE ➤ OpenVPN ➤ Supports numerical map rules ➤ Supports flexible call routing policies ➤ Supports caller/callee number transformation ➤ Supports advanced auto-switching
Voice & Fax	
➤ G.711A/U, G.723.1, G.729A, G.722, G.726, iLBC, OPUS, AMR, and AMR-WB ➤ Comfort Noise Generation (CNG) ➤ Supports Modem/POS ➤ Adaptive Dynamic Voice Jitter Buffer ➤ Programmable Gain Control ➤ DTMF Type: SIP INFO/RFC4733/INBAND ➤ Supports T.38 and Pass-through Fax ➤ Echo Cancellation (G.168), up to 128ms	

FXS

- Interface: RJ45, DB68B
- Dialing Mode: DTMF or Pulse
- Pulse dialing: 10 and 20 PPS
- Caller ID: DTMF/FSK Caller ID Standard
- Maximum Cable Length: 3 km
- Polarity Reversal
- Programmable Call Progress Tones

Protocol

- SIP v2.0 (UDP/TCP), RFC3261
- SDP, RTP (RFC2833), RFC3262, RFC3263, RFC3264, RFC3265, RFC3515, RFC2976, RFC3311
- RTP/RTCP, RFC2198, RFC1889
- IPv4 and IPv6
- Outbound Proxy
- RFC2806 TEL URI
- RFC 3581 NAT, rport
- VLAN 802.1P/802.1Q
- RFC4028 Session Timer
- DNS SRV/A Query/NATPR Query
- Private Network Penetration: STUN, Static/Dynamic NAT

Maintenance

- SNMP v1/v2/v3
- TR069
- Auto Deployment
- Web Page Configuration
- Data Backup/Restore
- Firmware Upgrade via Web Interface
- CDR Call Detail Record Statistics
- IPOE
- Supports Debug, Info, Error, Warning, Notice system log levels
- Ping/Tracert Testing
- Network Packet Capture
- NTP time synchronization/daylight saving time
- Cloud-based management

S Series Product Specifications

Interfaces /Features		UScale S132	UScale S196	UScale S1224
Appearance				
Analog Interface	FXS	8~32	32~96	32~224
	FXS TYPE	RJ45	DB68B	DB68B
Physical Interface	WAN	1	2	2
	LAN	3	1	1
Supported Protocols	Console	1	1	1
	SIP	√	√	√
Reliability	Self-switching	√	√	√
	Dual Home	√	√	√
	Dual Registration	√	√	√
Specifications	Dimensions	Standard 19-inch 1U rack 44 × 440 × 316.6	Standard 19-inch 1U chassis 44 × 440 × 316.6	Standard 19-inch 2U chassis 86 × 440 × 316.6
	Weight	2.44 kg	6kg	10kg
	Power Supply	100-240V AC or -48 to -60V DC boths with dual power supply support	100-240V AC or -48 to -60V DC boths with dual power supply support	100-240V AC or -48 to -60V DC boths with dual power supply support
	Power Consumption	52W	150W	250W

