



# 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 Features

### Adaptable to Multiple Solutions

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

## Product Overview



### 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

## High-quality voice

- Multiple voice codecs ensure high-quality voice services

## Multiple management and maintenance

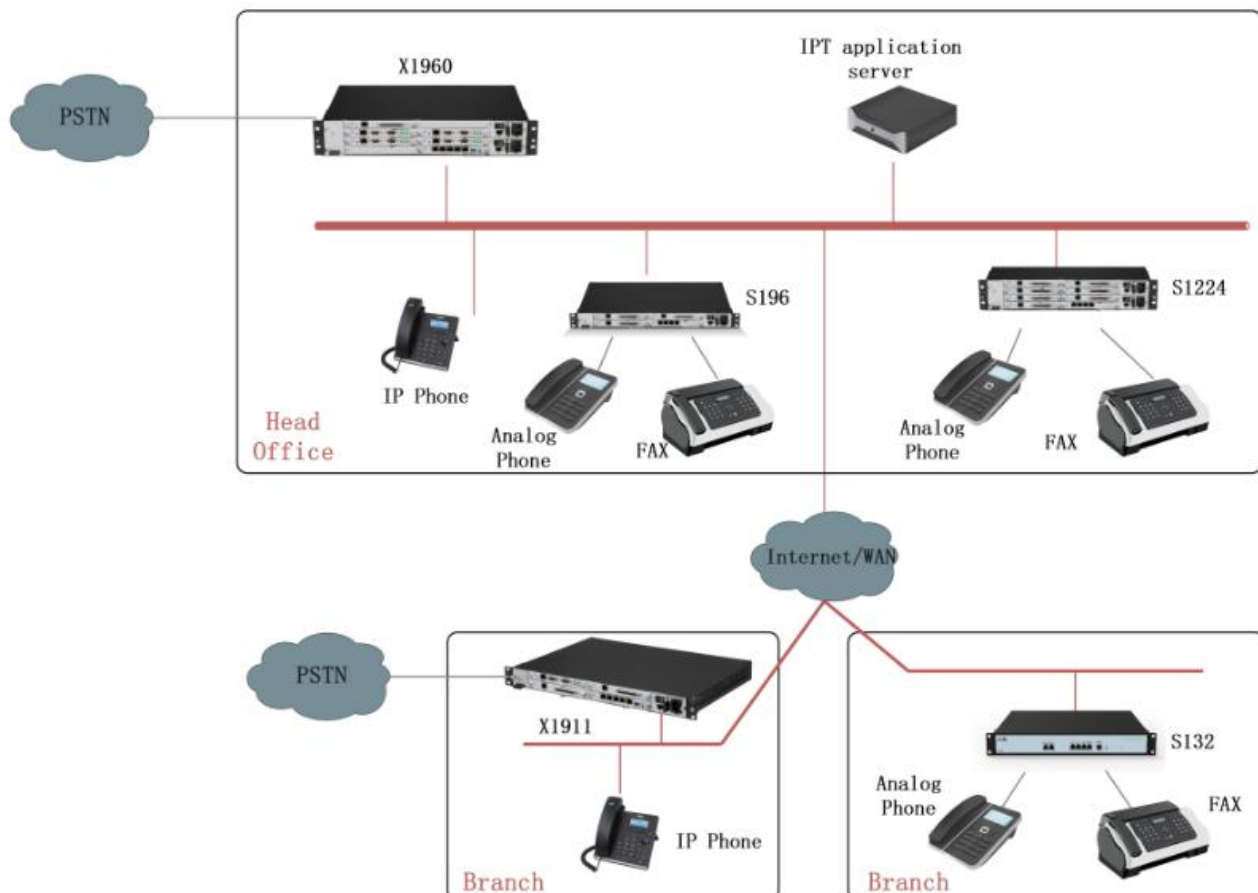
### methods

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

# 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

- 8/96/224 FXS access ports with configurable port options, S132 supports the RJ45 interface, while S196/S1224 supports the DB68B interface.

## Network Interface

- S132: 4 x 10/100/1000Mbps, Voice & Fax RJ-45
- S196/S1224: 3 x 10/100M, RJ-45, Voice & Fax DB68B

## 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

## Call Features

- 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

## Software Features

- 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

## **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




## **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

## **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

# 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
	Console	1	1	1
Supported Protocols	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

