Cisco ATA 191 Multiplatform Analog Telephone Adapter

The Cisco® ATA 191 Multiplatform Analog Telephone Adapter is a 2-port handset-to-Ethernet adapter that brings traditional analog devices into the IP world.

Product Overview

The Cisco ATA 191 Multiplatform Analog Telephone Adapter turns traditional telephone, fax, and overhead paging communications devices into IP devices for greater cost-effectiveness. Customers can take advantage of IP telephony applications by connecting their analog devices to Cisco analog telephone adapters.

The ATA 191 is the preferred solution to address the needs of customers who connect to enterprise networks, small offices, or unified communications as a service from the cloud. It has two standard FXS ports, which can be configured independently as two Session Initiation Protocol (SIP) registrations. With the ATA 191, customers can protect and extend their existing investment in analog systems, as well as smooth their migration to pure voice over IP in a more affordable and reliable way.

The ATA 191 is designed to work with third-party call control systems and does not work with Cisco call control systems.

Features and Benefits

Feature	Benefit
Voice quality	Offers clear, natural-sounding voice quality via advanced preprocessing, high-performance echo cancellation, voice activity detection, and comfort noise generation
Cloud provisioning	Enables zero-touch provisioning via TR-069 and XML configuration files
Security	Provides a complete security solution for both media and signaling
Problem reporting (PRT)	Improves serviceability with a dedicated PRT button for problem reporting and log collection
IPv6	Enables IPv6 dual stack to help with migration to IPv6

Platform Support Information

The Cisco ATA 191 Multiplatform Analog Telephone Adapter is designed to work with third-party call control systems.

Licensing Information

No license is required to connect the Cisco ATA 191 Multiplatform Analog Telephone Adapter to third-party call control systems.

Product Specifications

Feature	Specifications
Physical dimensions (H×W×D)	3.9 x 3.9 x 1.1 in. (100 × 100 × 28 mm)
Weight	4.7 oz (132.1 g)
Hardware	Interface: Two RJ-11 FXS ports, one 10/100 Mbps RJ-45 Ethernet port, Button: Reset / Problem Reporting (PRT) LED indicators: Power, Network, Phone 1, Phone 2, PRT Wall mountable
Subscriber Line Interface Circuit (SLIC)	Ring voltage: 40 to 90 Vpk configurable Ring frequency accuracy: 1% Ring waveform: Trapezoidal or sinusoidal Maximum ringer load: 3 Ringer Equivalence Numbers (RENs) On-hook voltage (tip and ring): -46 to -56V Off-hook current: 25 mA +/- 10% Terminating impedance: 600 ohm resistive, 900 ohm resistive, or 220 ohm + 820 ohm 120 nF complex impedance Frequency response: 300 to 3400 Hz Return loss (600 ohm, 300 to 3400 Hz): up to 26 dB Idle channel noise: <-65 dBm 0p Longitudinal balance: 58 dB (typical) Voice quality Mean Opinion Score (MOS): >4.0 Voice quality jitter: <150ms
Networking	MAC address IPv4 only IPv6 only IPv4/IPv6 dual stack Session Initiation Protocol (SIP) Transmission Control Protocol (TCP) User Datagram Protocol (UDP) Real Time Protocol (RTP) Real Time Control Protocol (RTCP) HTTP HTTPS Trivial File Transfer Protocol (TFTP) Address Resolution Protocol (ARP) DNS A/AAAA and SRV records Dynamic Host Configuration Protocol (DHCP) client Internet Control Message Protocol (ICMP) Simple Network Time Protocol (SNTP) Cisco Discovery Protocol Link Layer Discovery Protocol (LLDP) Point-to-Point Protocol over Ethernet (PPPoE)
Quality of Service (QoS)	IEEE 802.1p/Q (QoS and VLAN tagging) Differentiated Services (DiffServ), Type of Service (ToS)
Telephony	Anonymous call and call blocking Call forwarding: No answer, busy, and all Call hold and resume Caller ID blocking Caller ID generation (name and number): Bellcore, BT, and European Telecommunications Standards Institute (ETSI) Caller ID with name and number Call pickup and group pickup Call transfer, call return, and call back on busy Call waiting Configurable ring frequency

Feature	Specifications
	Configurable tones and cadences
	Disconnect tone
	Distinctive ringing: Calling and called number
	Do not disturb
	Forced Authorization Code (FAC)/Client Matter Code (CMC)
	Flash hook timer
	Hook flash event signaling
	Hotline and warm line calling
	Message Waiting Indicator (MWI) tones
	Music on hold
	Off-hook warning tone
	Polarity control
	Redial
	Selective and anonymous call rejection
	SIP redundancy
	Speed dial
	Streaming audio server: Up to 4 sessions
	Three-way conference calling with local mixing
	Tip and ring voltage adjustment setting
	Visual Messaging Waiting Indicator (VMWI) using Frequency Shift Keying (FSK)
	Network Address Translation (NAT)
	Session Traversal Utilities for NAT (STUN)
Audio	Codec: G.711 a-law, G.711 µ-law, G.729a, G.729ab, G.726
	Codec name assignment
	Full-duplex audio
	Echo cancellation
	Voice activity detection
	Silence suppression
	Configurable silence threshold
	Comfort noise generation
	Adaptive jitter buffer
	Frame loss concealment
	Adjustable audio frames per packet
	Call progress tone generation
	Impedance and gain adjustment
	Dynamic audio payload
Fax	Real-time fax over IP via T.38 fax relay (Group 3)
	Fax pass-through via G.711 (Group 3)
	Fax tone detection and pass-through
	Automatic negotiation on transmission rate
Provisioning and management	Cloud provisioning (remote configuration)
	Web-based administration
	Interactive Voice Response (IVR)
	Automated provisioning and upgrading via HTTP, HTTPS, and TFTP
	TR-069
	SSH access
	Simple Network Management Protocol (SNMPv3)
	Report generation and event logging
	Dedicated PRT button
	Support for RTP statistics
	Syslog (multilevel granularity)
	Ping and trace route diagnostics
	Configuration management: Backup and restore
	Dual image

Feature	Specifications
Security	Password-protected system reset to factory default
	Password-protected administrator and user access authority
	Provisioning, configuration, and authentication
	HTTPS with factory-installed client certificate
	Advanced Encryption Standard (AES) encryption
	SIP over Transport Layer Security (TLS1.1 and TLS1.2)
	Secure (encrypted) calling using Secure RTP (sRTP)
	Encrypted configuration files
	Image authentication
	Secure boot
	Secure Shell (SSH)
Power	DC input voltage: 5V DC at 2.4A maximum
	Power consumption: 5W
	Switching type (100-240V) automatic
	Power adapter: 100-240V and 50-60 Hz (26-34 VA) AC input, with 1.8 m cord
Reliability	Mean Time Between Failures (MTBF): 300,000 hours
	Operating temperature: 32° to 104°F (0° to 40°C)
	Nonoperating temperature: 14° to 140°F (-10° to 60°C)
	Humidity: Operating 10% to 90%, noncondensing/nonoperating 10% to 95%, noncondensing
Compliance (regulatory)	CE Markings per directives 2014/30/EU and 2014/35/EU
Compliance (safety)	UL 60950 Second Edition
	CAN/CSA-C22.2 No. 60950 Second Edition
	IEC 60950-1:2005 (Second Edition) + A1:2009 + A2:2013 and/or AS/NZS 60950.1:2015
Compliance (EMC)	AS/NZS CISPR 32:2015 Class B
	CISPR 32: 2015 Class B
	EN 55032: 2015 Class B
	EN 61000-3-2: 2014 Class A
	EN 61000-3-3: 2013
	EN 55024:2010+A1: 2015
	EN 61000-4-2: 2009
	EN 61000-4-3: 2006+A1:2008+A2:2010
	EN 61000-4-4: 2012
	EN 61000-4-5: 2014
	EN 61000-4-6: 2014+AC : 2015
	EN 61000-4-8: 2010
	EN 61000-4-11: 2004
	FCC Part 15, Subpart B
	ANSI C63.4-2014
	ICES-003 Issue 6: 2016
	ANSI C63.4-2014
	VCCI-TECHNICAL REQUIREMENTS (VCCI-CISPR 32: 2016) /
	CISPR 32: 2015 class B

Ordering Information

Part number	Product description
ATA191-3PW-K9	2-port analog telephone adapter for multiplatform
ATA191-PWR	Spare power adapter for ATA 191 and ATA 192

Warranty Information

The Cisco ATA 191 Multiplatform Analog Telephone Adapter is covered by a Cisco 1-year limited hardware warranty.

Custom Call to Action

For additional details on the Cisco ATA 191 Multiplatform Analog Telephone Adapter, go to https://www.cisco.com/c/en/us/products/unified-communications/ata-190-series-analog-telephone-adapters/index.html.

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