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Cisco ATA 191 Analog Telephone Adapter



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

Product Overview

The Cisco® ATA 191 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 Cisco ATA 191 Analog Telephone Adapter is the preferred solution to address the needs of customers who connect to enterprise networks, small offices, or the emerging 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 an affordable and reliable way.

The Cisco ATA 191 Analog Telephone Adapter is designed to 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 (VAD), and Comfort Noise Generation (CNG)
Central provisioning and configuration	Eases deployment via a Cisco Unified Communications Manager central interface
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 an IPv4/IPv6 dual stack to help migration to IPv6

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Platform Support

The Cisco ATA 191 Analog Telephone Adapter is compatible with Cisco call control systems.

Licensing

Phone licensing depends on the call control platform and its policies. For Cisco Unified Communications Manager, the Cisco ATA 191 Analog Telephone Adapter requires one Essential User Connect License (UCL) per port.

Product specifications

Feature	Specifications
Physical dimensions (H×W×D)	3.9 x 3.9 x 1 in. (100 × 100 × 28 mm)
Weight	4.7 oz (132.1 g)
Hardware	Interface: Two RJ11 FXS ports, one 10/100 Mbps RJ-45 Ethernet port, power button: reset and 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: 25mA +/-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 Secure HTTP (HTTPS) Trivial File Transfer Protocol (TFTP) Address Resolution Protocol (ARP) DNS A and AAAA records Dynamic Host Configuration Protocol (DHCP) client Internet Control Message Protocol (ICMP) Simple Network Time Protocol (SNTP) Cisco Discovery Protocol (CDP) Link Layer Discovery Protocol (LLDP)

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Feature	Specifications
Quality of Service (QoS)	IEEE 802.1p/Q (QoS and VLAN tagging) Differentiated Services (DiffServ) / Type of Service (ToS)
Telephony	Call forwarding: No answer, busy, and all Call hold and resume 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 waiting Conference Configurable ring frequency Country-specific tones and cadences Disconnect tone Distinctive ringing: Calling and called number Forced Authorization Code (FAC)/Client Matter Code (CMC) Failover and fall back 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 Share lines Speed dial Tip and ring voltage adjustment setting Visual Messaging Waiting Indicator (VMWI) using Frequency Shift Keying (FSK)
Audio	Codec: G.711 a-law, G.711 μ-law, G.729a, G.729ab Full duplex audio Echo cancellation Voice activity detection Silence suppression 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 and modem	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 Auto negotiation on transmission rate
Provisioning and management	Central configuration Interactive Voice Response (IVR) Automated provisioning and upgrading via HTTP and TFTP SSH access Nonintrusive, in-service upgrades Report generation and event logging Dedicate PRT button Support RTP statistics Syslog (multilevel granularity)

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Feature	Specifications
	Dual image
Security	System reset to factory default Password-protected administrator access authority Provisioning, configuration, and authentication HTTPS with factory-installed client certificate Advanced Encryption Standard (AES) encryption SIP over Transport Layer Security (TLS) 1.1 and 1.2 Secure (encrypted) calling using Secure RTP (sRTP) Encrypted TFTP configuration files Image authentication Secure boot Secure Shell (SSH)
Power	DC input voltage: 5V DC at 2.0A maximum Power consumption: 5W Switching type (100 to 240V) automatic Power adapter: 100 to 240V and 50 to 60 Hz (26 to 34 VA) AC input, with 6-ft (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

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Ordering Information

Part number	Product description
ATA191-K9	2-Port Analog Telephone Adapter
ATA191-PWR	Spare Power Adapter for ATA 191 and ATA 192

Warranty Information

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

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Custom Call to Action

For additional details on the Cisco ATA 191 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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Printed in USA C78-739907-01 12/17

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