

Cisco ATA 190 Analog Telephone Adaptor

Product Overview

The Cisco® ATA 190 Analog Telephone Adaptor is a handset-to-Ethernet adaptor that turns traditional telephone devices into IP devices (Figures 1 and 2). Customers can take advantage of the many new and exciting IP telephony applications by connecting their analog devices to Cisco ATAs.

The Cisco ATA products are standards-based communication devices that deliver true, next-generation voice-over-IP (VoIP) terminations to businesses and residences worldwide. The Cisco ATA 190:

- Protects existing telephone investment: The Cisco ATA 190 supports two voice ports (RJ-11 phone ports), each with its own independent telephone number, and a single RJ-45 10/100 BASE-T Ethernet port. Each port supports either voice calls or fax sessions, and both ports can be used simultaneously. This adaptor can use existing Ethernet LAN deployments.
- Is cost-effective: The Cisco ATA 190 helps customers turn their analog phone devices into IP devices cost-effectively and is the preferred solution to address the needs of customers who connect to enterprise networks, small-office environments, or the emerging VoIP managed voice services and local services market.

Enterprise customers can use the Cisco ATA 190 to connect analog phones and fax machines to their VoIP network. Service providers are taking advantage of emerging telephony applications and the ease of deploying second-line services using the Cisco ATA solutions.

Figure 1. Cisco ATA 190 Endpoint (Top View)



Figure 2. Cisco ATA 190 (Rear View)



Features and Benefits

Table 1 lists the features and benefits of the Cisco ATA 190.

Table 1. Features and Benefits of Cisco ATA 190

Feature	Benefits
Configuration and Provisioning <ul style="list-style-type: none"> Configuration as per Cisco endpoints devices Autoprovisioning with Trivial File Transfer Protocol (TFTP) for servers Automatic assignment of IP address, network routing IP, and subnet mask using Dynamic Host Configuration Protocol (DHCP) Touch-tone telephone keypad configuration with voice prompt Administration password to protect configuration and access Remote upgrades through network 	<ul style="list-style-type: none"> Cisco Unified Communications Manager (UCM) standard configuration and provisioning options Ease of administration
Voice Quality <ul style="list-style-type: none"> Advanced preprocessing to optimize full-duplex voice compression High-performance line-echo cancellation to eliminate noise and echo Voice activity detection (VAD) and comfort noise generation (CNG) to save bandwidth by delivering voice, not silence; VAD is configurable, and the ATA 190 determines whether CNG should be turned on dynamically Dynamic network monitoring to reduce jitter artifacts such as packet loss 	Clear, natural-sounding voice quality
Signaling Protocol <ul style="list-style-type: none"> Session Initiation Protocol (SIP) on the Cisco line side 	Allows interoperation with Cisco UCM SIP solution
Security <ul style="list-style-type: none"> Secure Real-Time Transfer Protocol (SRTP) and Transport Layer Security (TLS) over SIP 	Secure media and secure signaling support, for secure solutions
Fax Support <ul style="list-style-type: none"> T38 fax support 	Standard fax capability to send faxes over the IP network; the T.38 fax relay feature enables devices to use fax machines to send files over the IP network
Form Factor <ul style="list-style-type: none"> Fits in most environments 	New form-factor design based on the Cisco endpoints portfolio

Cisco UCM Version Compatibility

The Cisco ATA 190 is compatible with Cisco UCM Versions 8.5(1), 8.6(2), 9.1(2), 10.0(1) and later.

Product Specifications

Table 2 gives specifications of the Cisco ATA 190.

Table 2. ATA 190 Product Specifications

Physical Specifications	
Power	Power supply: Universal AC power supply 100 and 240V DC input voltage: 5 VDC at 2.0A maximum power consumption: 5W
Noise level	Less than 34 dBA at 3 ft (0.91m)
Connectors	2 RJ-11
Thermal	32 to 113°F (0 to 45°C) -77 to 158°F (-25 to 70°C)
Humidity	Operating humidity: 0 to 90% noncondensing Storage humidity: 10 to 90% noncondensing
Mean time between failure (MTBF)	100,000 hours

Physical Specifications	
Physical dimensions (H x W x D) and weight	3.98 x 3.98 x 1.10 in. (101 x 101 x 28 mm) Unit weight: 5.40 oz (153g)
Compliance	FCC (Part 15 Class B), CE, ICES-003, A-Tick certification, Restriction of Hazardous Substances (RoHS), and UL

Software Specifications	
Configurable tones	Configurable for two sets of frequencies and single set of on/off cadence
Dual-tone multi-frequency (DTMF)	DTMF tone detection and generation
Fax	Fax pass-through and T.38 fax relay mode Enhanced fax pass-through is supported on the Cisco ATA. Fax transmission rate is up to 14 kbps in T38 mode and 34 kbps in fax pass-through mode. The rate is not configurable, and the Cisco ATA 190 autonegotiates and chooses the maximum rate.
Line-echo cancellation	<ul style="list-style-type: none"> Echo canceller for each port Double-talk detection
Out-of-band DTMF	RFC 2833 Note: You cannot transmit RFC 2833 and in-band signaling simultaneously.
Configuration	<ul style="list-style-type: none"> DHCP (RFC 2131) Web configuration through built-in web server Touch-tone phone keypad configuration with voice prompt Basic boot configuration (RFC 1350 TFTP Profiling) by touch-tone phone keypad or built-in web server Dial-plan configuration through Cisco UCM Cisco Discovery Protocol through Cisco UCM
Quality of service (QoS)	<ul style="list-style-type: none"> Class-of-service (CoS) bit-tagging (802.1P) Type-of-service (ToS) bit-tagging
Security	Encrypted TFTP configuration files
Voice coders-decoders (codecs)	<ul style="list-style-type: none"> G.729A and G.729AB G.711 a-law G.711 mu-law
Voice features	<ul style="list-style-type: none"> VAD CNG Dynamic jitter buffer (adaptive)
VoIP protocols	SIP

Warranty Information

Find warranty information on Cisco.com at the [Product Warranties](#) page.

Ordering Information

To place an order, visit the [Cisco Ordering homepage](#) and refer to Table 3. To download software, visit the [Cisco Software Center](#).

Table 3. Ordering Information

Product Name	Part Number
Cisco ATA 190	ATA190

Cisco Services

Cisco Services integrates closely with consumer marketing teams as an essential element of any technology solution. Please contact your Cisco Services marketing communications manager if you have not already received targeted services content blocks for integration. Please send an email message to ca-marcom@cisco.com if you are not sure of the appropriate contact.

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For More Information

For more information about the Cisco ATA 190, contact your local Cisco account representative.



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