



Cisco ATA Specifications

This section describes Cisco ATA specifications:

- [Physical Specifications, page C-1](#)
- [Electrical Specifications, page C-2](#)
- [Environmental Specifications, page C-2](#)
- [Immunity Specifications, page C-2](#)
- [Physical Interfaces, page C-3](#)
- [Ringing Characteristics, page C-3](#)
- [Software Specifications, page C-3](#)
- [SIP Compliance Reference Information, page C-5](#)



Note

The term *Cisco ATA* refers to both the Cisco ATA 186 and the Cisco ATA 188, unless otherwise stated.

Physical Specifications

Table C-1 Physical Specifications

Description	Specification
Dimensions	1.5 x 6.5 x 5.75 in. (3.8 x 16.5 x 14.6 cm) (H x W x D)
Weight	15 oz (425 g)

Electrical Specifications

Table C-2 Electrical Specifications

Description	Specification
Power	0.25 to 7.5W (idle to peak)
DC input voltage	+5.0 VDC at 1.5A maximum
Power adaptor	Universal AC/DC ~3.3 x 2.0 x 1.3 in. (~8.5 x 5.0 x 3.2 cm) ~4.8 oz (135 g) for the AC-input external power adaptor ~4 ft (1.2 m) DC cord 6 ft (1.8 m) cord UL/CUL, CE approved Class II transformer

Environmental Specifications

Table C-3 Environmental Specifications

Description	Specification
Operating temperature	41 to 104°F (5 to 40°C)
Storage temperature	-4 to 140°F (-20 to 65°C)
Relative humidity	10 to 90% noncondensing, operating, and nonoperating/storage

Immunity Specifications

EN50082-1, including the following:

- EN61000-3-2, Electromagnetic Compatibility
- EN61000-3-3, Electromagnetic Compatibility
- EN61000-4-2, ESD
- EN61000-4-3, Radiated Immunity
- EN61000-4-4, Burst Transients
- EN61000-4-5, Surge
- EN61000-4-6, Injected RF
- EN61000-4-11, Dips and Sags

Physical Interfaces

Table C-4 Physical Interfaces

Description	Specification
Ethernet	Two RJ-45 connectors, IEEE 802.3 10BaseT standard
Analog telephone	Two RJ-11 FXS voice ports
Power	5 VDC power connector
Indicators	Function button with integrated status indicator Activity LED indicating network activity

Ringling Characteristics

Table C-5 Ringling Characteristics

Description	Specification
Tip/ring interfaces for each RJ-11 FXS port (SLIC)	
Ring voltage	40V _{RMS} (typical, balanced ringing only)
Ring frequency	25 Hz
Ring waveform	Trapezoidal with 1.2 to 1.6 crest factor
Ring load	1400 ohm + 40μF
Ringer equivalence number (REN)	Up to 5 REN per RJ-11 FXS port
Loop impedance	Up to 200 ohms (plus 430-ohm maximum telephone DC resistance)
On-hook/off-hook characteristics	
On-hook voltage (tip/ring)	-50V
Off-hook current	27 mA (nominal)
RJ-11 FXS port terminating impedance option	The Cisco ATA186-I1 and Cisco ATA188-I1 provide 600-ohm resistive impedance. The Cisco ATA186-I2 and Cisco ATA188-I2 provide 270 ohm + 750 ohm // 150-nF complex impedance.

Software Specifications

Table C-6 Software Specifications (All Protocols)

Description	Specification
Call progress tones	Configurable for two sets of frequencies and single set of on/off cadence
Dual-tone multifrequency (DTMF)	DTMF tone detection and generation

Table C-6 Software Specifications (All Protocols) (continued)


Description	Specification
Fax	G.711 fax pass-through and G.711 fax mode. Enhanced fax pass-through is supported on the Cisco ATA. Success of fax transmissions up to 14.4 kbps depends on network conditions, and fax modem/fax machine tolerance to those conditions. The network must have reasonably low network jitter, network delay, and packet-loss rate.
Line-echo cancellation	<ul style="list-style-type: none"> • Echo canceller for each port • 8 ms echo length • Nonlinear echo suppression (ERL > 28 dB for frequency = 300 to 2400 Hz) • Convergence time = 250 ms • ERLE = 10 to 20 dB • Double-talk detection
Out-of-band DTMF	<ul style="list-style-type: none"> • H.245 out-of-band DTMF for H.323 • RFC 2833 AVT tones for SIP, MGCP, SCCP
Configuration	<ul style="list-style-type: none"> • DHCP (RFC 2131) • Web configuration via built-in Web server • Touch-tone telephone keypad configuration with voice prompt • Basic boot configuration (RFC 1350 TFTP Profiling) • Dial plan configuration • Cisco Discovery Protocol
Quality of Service	<ul style="list-style-type: none"> • Class-of-service (CoS) bit-tagging (802.1P) • Type-of-service (ToS) bit-tagging
Security	<ul style="list-style-type: none"> • H.235 for H.323 • RC4 encryption for TFTP configuration files
Voice coder-decoders (codecs)	<p> Note In simultaneous dual-port operation, the second port is limited to G.711 when using G.729.</p> <ul style="list-style-type: none"> • G.723.1 • G.729, G.729A, G.729AB • G.723.1 • G.711A-law • G.711μ-law

Table C-6 Software Specifications (All Protocols) (continued)

Description	Specification
Voice features	<ul style="list-style-type: none">• Voice activity detection (VAD)• Comfort noise generation (CNG)• Dynamic jitter buffer (adaptive)
Voice-over-IP (VoIP) protocols	<ul style="list-style-type: none">• H.323 v2• SIP (RFC 2543 bis)• MGCP 1.0 (RFC 2705)• MGCP 1.0/network-based call signalling (NCS) 1.0 profile• MGCP 0.1• SCCP

SIP Compliance Reference Information

Information on how the Cisco ATA complies with the IETF definition of SIP as described in RFC 2543 is found at the following URL:

<http://www-vnt.cisco.com/SPUniv/SIP/documents/CiscoATASIPComplianceRef.pdf>

