



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](#)



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	<p>G.711 fax pass-through and G.711 fax mode.</p> <p>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.</p>
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> <hr/> <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

