



Technical Specifications

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Physical and Operating Environment Specifications

The following sections describe the physical and operating environment specifications for Cisco Unified IP Phone 6901 and Cisco Unified IP Phone 6911.

Physical and Operating Environment Specifications for Cisco Unified IP Phone 6901

The following table shows the physical and operating environment specifications for the Cisco Unified IP Phone 6901.

Table 1: Physical and Operating Environment Specifications for the Cisco Unified IP Phone 6901

Specification	Value or Range
Operating temperature	23° to 113°F (-5° to 45°C)
Operating relative humidity	10% to 95% (noncondensing)
Storage temperature	-13° to 158°F (-25° to 70°C)
Height	8.1 in. (20.5 cm)
Width	3.7 in. (9.4 cm)
Depth	<ul style="list-style-type: none">• 1.8 in. (4.6 cm) - With footstand closed• 3.42 in. (8.7 cm) - With footstand open

Specification	Value or Range
Weight	<ul style="list-style-type: none"> • 1.37 lb (621.2 g) - Black handset phone (Europe) • 1.37 lb (662 g) - White handset phone (Europe) • 1.44 lb (655.2 g) - Black handset phone (North America) • 1.53 lb (695 g) - White handset phone (North America)
Power	<ul style="list-style-type: none"> • 100-240 VAC, 50-60 Hz, 0.5 A - When using the AC adapter • 48 VDC, 0.2 A - When using the in-line power over the network cable
Cables	Category 3/5/5e for 10-Mbps cables with four pairs Category 5/5e for 100-Mbps cables with four pairs Note Cables have four pairs of wires for a total of eight conductors.
Distance Requirements	As supported by the Ethernet Specification, it is assumed that the maximum cable length between each Cisco Unified IP Phone and the switch is 100 meters (330 feet).

Physical and Operating Environment Specifications for Cisco Unified IP Phone 6911

The following table shows the physical and operating environment specifications for the Cisco Unified IP Phone 6911.

Table 2: Physical and Operating Environment Specifications for the Cisco Unified IP Phone 6911

Specification	Value or Range
Operating temperature	32° to 104°F (0° to 40°C)
Operating relative humidity	10% to 95% (non-condensing)
Storage temperature	14° to 140°F (-10° to 60°C)
Height	8.1 in. (20.5 cm)
Width	7.4 in. (18.8 cm)
Depth	1.5 in. (3.82 cm) - Excluding the handset

Specification	Value or Range
Weight	Charcoal: Standard: 32.3 oz (917g); slimline: 31.1 oz (883g) Arctic white: Standard: 34.6 oz (981.3g); slimline: 33.5 oz (948.3g)
Power	<ul style="list-style-type: none"> • 100-240 VAC, 50-60 Hz, 0.5 A - When using the AC adapter • 48 VDC, 0.2 A - When using the in-line power over the network cable
Cables	Category 3/5/5e for 10-Mbps cables with 4 pairs Category 5/5e for 100-Mbps cables with 4 pairs Note Cables have 4 pairs of wires for a total of 8 conductors.
Distance Requirements	As supported by the Ethernet Specification, it is assumed that the maximum cable length between each Cisco Unified IP Phone and the switch is 100 meters (330 feet).

Cable Specifications

- RJ-9 jack (4-conductor) for handset connection.
- RJ-45 jack for the LAN 10/100BaseT connection (labeled 10/100 SW on the Cisco Unified IP Phone 6901 and 6911).
- RJ-45 jack for a second 10/100BaseT compliant connection (labeled 10/100 PC on the Cisco Unified IP Phone 6911).
- 48-volt power connector.

Network and Access Port Pinouts

Although both the network and access ports are used for network connectivity, they serve different purposes and have different port pinouts.

- The network port is labeled **network** on the Cisco Unified IP Phone.
- The access port is labeled **Computer** on the Cisco Unified IP Phone (Cisco Unified IP Phone 6911 only).

Network Port Connector

The following table describes the network port connector pinouts.

Table 3: Network Port Connector Pinouts

Pin number	Function
1	BI_DA+
2	BI_DA-
3	BI_DB+
4	BI_DC+
5	BI_DC-
6	BI_DB-
7	BI_DD+
8	BI_DD-
Note	BI stands for bidirectional, while DA, DB, DC and DD stand for Data A, Data B, Data C and Data D respectively.

Computer Port Connector

The following table describes the computer port connector pinouts.

Table 4: Computer (Access) Port Connector Pinouts

Pin number	Function
1	BI_DB+
2	BI_DB-
3	BI_DA+
4	BI_DD+
5	BI_DD-
6	BI_DA-
7	BI_DC+
8	BI_DC-
Note	BI stands for bidirectional, while DA, DB, DC and DD stand for Data A, Data B, Data C and Data D respectively.

Phone Behavior During Times of Network Congestion

Anything that degrades network performance can affect phone audio and, in some cases, can cause a call to drop. Sources of network degradation can include, but are not limited to, the following activities:

- Administrative tasks, such as an internal port scan or security scan
- Attacks that occur on your network, such as a Denial of Service attack

