

iSwitch 2000-CTL

AV over IP Controller

Datasheet V1.0



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1. INTRODUCTION

1.1 OVERVIEW

The **iSwitch 2000-CTL** AVoIP controller provides centralized configuration and management for encoders and decoders over an AV over IP network. It supports device discovery and system control through Ethernet and RS-232 interfaces. It can also be integrated with an external control system. Supports **iSwitch 2000HC-T/ iSwitch 2000HC-R/ iSwitch 2000U-TR/ iSwitch 2000H-TR**.

1.2 FEATURES

- **Automatically discovers** compatible encoders and decoders on the network.
- Supports configuration and management of connected encoders and decoders.
- Supports integration with external control systems.

1.3 PACKAGE CONTENTS

- 1 x iSwitch 2000-CTL Controller Unit
- 1 x 12V DC 2A Power Adapter (US/EU/UK/AU)
- 1 x 3.5mm 6-pin Phoenix Male Connector
- 4 x Wall-Mount Brackets
- 4 x Screws

1.4 SPECIFICATIONS

Video	
I/O Connections	1 x AV(PoE) (10/100/1000 Mbps) 1 x CONTROL (10/100/1000 Mbps) 1 x RS232
LED	1 x POWER LED 1 x STATUS LED
Button	1 x RESET Button
Control	
Control Method	LAN (Web UI & Telnet), RS-232 and third party controllers
General	
Operating Temperature/ Humidity	32°F – 113°F (0°C – 45°C), 10% – 90%, non-condensing
Storage Temperature/ Humidity	-4°F – 158°F (-20°C – 70°C), 10% – 90%, non-condensing
ESD Protection	Human body model: ±8kV (air-gap discharge) / ±4kV (contact discharge)
Power Supply	12V DC 2A; PoE
Power Consumption	• No load: 2.1W • Max.: 8.9W (full load)
Device Dimension (W x H x D)	8.46" x 0.98" x 4.73" (215 mm x 25 mm x 120.2 mm)
Net Weight	1.50lbs (0.68kg)

2. PANEL OVERVIEW

2.1 FRONT PANEL

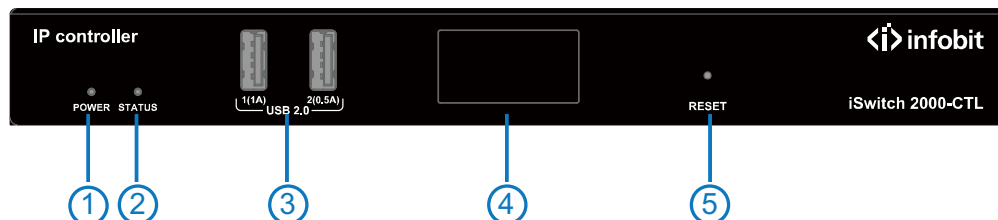


Figure 1: Front Panel

#	Name	Description
1	POWER LED	- On: The device is powered on. - Off: The device is powered off.
2	STATUS LED	- On: The device is operating normally. - Off: The device is booting or powered off.
3	USB 2.0 (1–2)	2 × USB 2.0 Type-A ports. Connect to USB 2.0 peripherals. Port 1 provides 5V DC at up to 1 A, and Port 2 provides 5V DC at up to 0.5 A.
4	OLED Screen	Displays the IP addresses of AV(POE) and CONTROL ports, along with the device firmware version.
5	RESET	Press and hold the recessed button for at least 10 seconds, then release to restore the device to its factory default settings. Note: Restoring factory default settings erases all configurations and custom data. Back up any important settings before proceeding.

2.2 REAR PANEL



Figure 2: Rear Panel

#	Name	Description
1	12V	12V DC power connector. Connect to the included power adapter.
2	AV(POE)	AV (POE): Connect to the AV network for communication with encoders and decoders. Default IP setting: DHCP CONTROL: Connect to a control network for configuration and management of the controller, encoders, and decoders. Default IP setting: - IP Address: 192.168.11.243 - Subnet Mask: 255.255.0.0
3	CONTROL	

#	Name	Description
		- Gateway: 192.168.11.1 - DHCP: Off Note: The AV (POE) port supports PoE power input from compatible power sourcing equipment (e.g. a PoE-enabled Ethernet switch), eliminating the need for a nearby power outlet.
4	RS232	• DEBUG: The TX, RX, G pins are used for device troubleshooting only. RS-232 parameters: - Baud Rate: 115,200bps - Data Bits: 8 bits - Parity: None - Stop Bits: 1 • CTRL: The G, TX, and RX pins are used for device control, configuration, and management through an RS-232 connection or an external controller. RS-232 parameters: - Baud Rate: 9600 bps - Data Bits: 8 bits - Parity: None - Stop Bits: 1 • 12V: The 12V and G pins provide 12V DC 0.5A output. Note: Connect the appropriate pins for debugging and device control. When the device is powered by a DC power adapter, if the CTRL pins are connected after a connection has been established through the DEBUG pins, reboot the device before performing control operations.