

Keypad & PoE Device Power Consumption

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PoE devices receive Ethernet data AND power through a CAT 5/6 cable. Switches capable of providing PoE, PoE+ or PoE++ can power devices such as keypads, touch panels, audio devices, and IP cameras.

The table below details the current draw (mA) and amount of power (Watts) required for the various URC devices.

Keypad & Touchscreen Models	LCD Off or in Sleep Mode Power Consumption		Average Power Consumption (PoE 48V)		Maximum Power Consumption (PoE 48V)		Notes
	Current	Watts	Current	Watts	Current	Watts	
TKP-100	35 mA	1.68 W	35 mA	1.68 W	37 mA	1.78 W	10/100 Ethernet
TKP-2000N	40 mA	1.92 W	45 mA	2.16 W	50 mA	2.40 W	10/100 Ethernet
TKP-7000	60 mA	2.88 W	85 mA	4.08 W	100 mA	4.80 W	10/100 Ethernet
TKP-5500	50 mA	2.40 W	65 mA	3.12 W	75 mA	3.60 W	10/100 Ethernet
TKP-5600	45 mA	2.16 W	69 mA	3.31 W	104 mA	4.99 W	10/100 Ethernet
TKP-7600	55 mA	2.64 W	75 mA	3.60 W	120 mA	5.76 W	10/100 Ethernet
TKP-8600	80 mA	3.84 W	120 mA	5.76 W	165 mA	7.90 W	10/100/1000 Gigabit Ethernet
TKP-9600	50 mA	2.40 W	140 mA	6.72 W	320 mA	15.36 W	10/100/1000 Gigabit Ethernet
TDC-7100	3.12 mA	0.15 W	63 mA	3.00 W	115 mA	5.50 W	-
TDC-9100	7.29 mA	0.35 W	140 mA	6.72 W	130 mA	6.25 W	-

	Current	Watts	Current	Watts	Current	Watts	
TRF-ZW10	-	-	40 mA	1.9 W	50 mA	2.4 W	10/100/1000 Gigabit/PoE

DMS-IN	-	-	25 mA	1.20 W	32 mA	1.53 W	10/100 Ethernet
DMS-OUT	-	-	25 mA	1.20 W	32 mA	1.53 W	10/100 Ethernet
MC-70VC	-	-	-	-	-	2.70 W	10/100 Ethernet
MC-73B	-	-	-	-	-	5.70 W	10/100 Ethernet
MC-75CD	-	-	-	-	-	2.30 W	10/100 Ethernet
CAM-DC-O	-	-	-	-	-	2.30 W	10/100 Ethernet
CAM-DC-I	-	-	-	-	-	2.30 W	10/100 Ethernet
CAM-MC	-	-	-	-	-	1.90 W	10/100 Ethernet
HDA-130 (PoE++ or AC Adapter Powered)	-	-	-	-	**1.25 A	60.0 W	Gigabit Ethernet (1000Mbps)/PoE, Powered by 48 VDC AC adapter or PoE++ injector. **The HDA-130 can draw up to 1.25A based on how it is being powered. If you are powering the amp with PoE++ then the draw can be up to 1.25A.
HDA-130 (PoE+ Powered)	-	-	-	-	***0.52 A	24.96 W	***If you are powering the amp with PoE+ then you basically slash the current draw in half and the amp draws .52A. The current draw is based on what power source you are using for the amplifier.

HDA-I/O	-	-	-	-	0.50 A	7.0 W	Gigabit Ethernet (1000Mbps), Powered by 12 VDC AC adapter or Power Over Ethernet injector
HDA-4100	-	-	-	-	-	75 Watts	120 V only. No PoE option. Gigabit Ethernet
HDA-8100	-	-	-	-	-	120 Watts	120 V only. No PoE option. Gigabit Ethernet
HDA-1600	-	-	-	-	-	95 Watts	120 V only. No PoE option. Gigabit Ethernet

Additional Note for the HDA-130 Amplifier:

Current draw for amplifiers is slightly different than current draw for touch screens since the amplifier draws more current the harder it is working. Touch screens typically have two states - on or off - meaning it is drawing more current when it is on, and very little when the screen is off. Amplifier current draw can be up and down based on the size of its power supply caps, how loud the source is playing, etc.

URC MFS-POE8:

Power Supply: 48V External Power Supply

PoE: 8 Ports (6.2Wx8=50W, 1 Port Max-15.4W)

URC POE-1:

Power Supply: 48 volts @ .5 Amps (internal, built-in, all in one unit)

PoE Power Rating: 1 Port @ .5 Amps for a total of 24 Watts

Note:

mA = The abbreviation **“mA”** denotes the International System unit for electrical current known as the milliampere. One milliampere is equal to one-thousandth of an ampere.

W = The abbreviation **“W”** denotes the International System unit for electrical power known as the Watt. The Watt is the electrical unit of electric power. It measures the rate of consumed energy.

V = The abbreviation **“V”** denotes the International System unit for electrical power known as the Volt. Volt is the electrical unit of Voltage.

A = Ampere, often shortened to amp "**A**", is the base unit of electric current in the International System of Units.

Additional Information & Resources:

A good resource for learning more about PoE ratings and detailed information on Type 1 through Type 4 PoE can be found [here](#).

A PoE++ injector that we have tested with the HDA-130 amplifier that delivers full PoE++ power and is very dependable can be found [here](#).

Please refer to [this article](#) for additional information on [URC devices power consumption and thermal properties](#) (BTU/hr).

To learn more about HDA products and programming, please see the [HDA Programmers Guide](#) or the Accelerator 3 online [Programming Guide](#).

To learn more about Accelerator 3 configuration and programming, please see the Accelerator 3 online [Programming Guide](#).