iTach Flex™

CONNECT ALMOST ANY DEVICE TO A WIRED TCP/IP OR WIFI NETWORK IN MINUTES. SIMPLY.

The iTach Flex is the first multi-functional smart endpoint that connects almost any electronic device to a WiFi or TCP/IP network so that it can be controlled and automated.

WIRED
DVD players, flat panel TVs, remote controls, stereo components, cable boxes

WIFI
Speakers, TVs, computers, motorized window shades

FLEX LINK CABLES
Motorized window shades, pool and spa, lighting, garage doors

Global Caché's iTach Flex is an industry first, a smart end-point that WiFi or network enables electrical devices instantly. The Flex adds intelligence to the enabled device, allowing events and tasks to be triggered with simple web-based commands and includes onboard memory allowing for stored web pages and files, and web page control of devices. In addition, the Flex supports HTTP for web browser control from anywhere on the network.

iTach Flex Smart End-point

The iTach Flex provides powerful, inexpensive, and simple connectivity to almost any electrical device so it can be controlled and automated using an app on a smartphone, tablet, or any other user interface. Historically, automation and control products have been complex and expensive, used almost exclusively by the very wealthy. That changes with the easy availability of control apps on the iTunes Store and Android Marketplace, and the ability to connect almost any device in the home to a WiFi or wired network using the iTach Flex.

The extremely small footprint, slightly larger than a pack of gum, is ideally suited for transparent coupling and seamless integration to any device in homes or businesses. The Flex's unique hardware form, with a WiFi or network connection to a 3.5mm jack that supports almost any type of protocol translation cable, offers the ability to bridge products and systems in a way never available before.

Entertainment systems are the most common household devices to be controlled, and most of those devices respond to IR codes, the infrared commands sent by your typical remote control. Integrated tightly with the iTach Flex, is a no-charge, cloud-based service instantly providing the required IR codes for the equipment being controlled. The ease-of-use and versatility of the

cloud-based system ensures compatibility and expandability of any system. The Flex also offers built-in IR learning.

Once an entertainment system is under control, the next step may be the shades, or the lighting, the sprinklers, or the Jacuzzi. The iTach Flex, with its scalable and simple to use design, will connect them all at the site of the equipment, with no need for a complex rack mounted system. The iTach Flex introduces a new concept of distributed automation and control, with smart end-points that enhance and connect standalone devices, allowing for them to be accessed and controlled by apps on smartphones, tablets, you name it.

Patent Pending

Technical Specs

Power Input	-5V DC@250mA (90 to 230V wall power adapter included) International plugs available -USB micro adapter cable draws power from USB port (included)

Setup & Configuration	Integrated web server for easy configuration
	Wireless
	  -Adhoc network for peer-to-peer setup
	  -WPS (WiFi Protected Setup)
	    Pushbutton connection to the network takes only moments

iHelp Setup Utility	Downloadable iHelp software simplifies network discovery and setup
IR Learning	From 20 to 200 KHz Downloadable iLearn software allows for the capture and playback of IR commands for control uses

Network Connection	DHCP and static IP
	Wired TCP/IP
	  -RJ45 standard Ethernet connector
	  -100/10 Mbits Ethernet protocol
	Wireless/WiFi
	  -Infrastructure and adhoc network types
	  -WiFi 802.11g with on-board antenna
	  -WPA/WPA2 (TKIP, AES & Mixed)
	  -WEP 64 bit and 128 bit
	  -WPS

LED Indicators	Power and connectors to indicate activity and status
Global Port	4 Conductor connection (TRRS: tip, ring, ring, sleeve) Allows for versatility through the use of our Flex Link cables
Serial/RS232	Male DB9 with automatic configuration sensing 600 baud to 115.2 Kbaud data rates supported Odd, Even, and None parity settings Bi-directional with hardware RTS/CTS flow control
Flex Link Cables	Supports IR Out, IR Blaster, IR Tri-Port and Serial

IR Output	From 20 to 500 KHz
	3.5mm connector
	Supports
	  -IR Emitter
	  -IR Blaster
	  -IR Tri-Port (emitter-emitter-emitter or emitter-emitter-blaster)
	  -GC-CGX - For Xantech compatibility

Control APIs	TCP
	  -ASCII textual commands compatible with iTach and GC-100 protocol
	  -Comma delimited, carriage return terminated
	HTTP
	  -New web-based control using HTTP commands with JSON payload data

File Storage	Store web pages and files in a standard FAT file system
	  -Accessible via URL from any location on or outside the network
	  -Allows for web page control of your devices

Mounting Dock	Allows for simple installation in any location Screw down the mounting dock and Flex units can be clicked in and out as needed
Dimensions	LxWxH Wired 2.58"x1.22"x0.82" LxWxH WiFi 2.55"x1.22"x0.48"
Certifications	FCC (Part 15, Class B), C-tick, RoHs compliant

Global Caché's iTach products integrate easily with iPhone/iPad/iPod and Android apps. The iTach's Ethernet w/PoE connectivity, support of 8 simultaneous connections, small form factor, and many other features are the reason why so many iPhone/iPod/iPad and Android developers have chosen to integrate with our hardware.

ITACH FLEX FEATURES

• Connects almost any electrical device to a WiFi or wired Ethernet network instantly

• Access, monitor, automate, and control standalone equipment

• Web-based control protocol using HTTP

• 4 Megs flash memory - store web pages and files accessible via URL

• Tiny footprint

• 4 conductor Global Port allows for versatility using Flex Link cables

• Built in IR learning and access commands to cloud-based IR database

• Mounting dock for simple installation

• Made in the USA and RoHS compliant

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