

iTach Family of Products

TCP/IP to IR, Serial, & Contact Closure with PoE Option

CONNECT ALMOST ANY DEVICE TO AN ETHERNET NETWORK IN MINUTES. **SIMPLY.**

Instantly IP-enable any device.
Control IR, Serial, and Contact
Closure over a network, simply.

INFRARED

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



SERIAL

Speakers, TVs, computers, motorized window shades



CONTACT CLOSURE

Motorized window shades, pool and spa, lighting, garage doors



Connect, monitor, automate, and control infrared, serial, and contact closure devices over a wired Ethernet network and the Internet. The iTach™ provides a new level of control flexibility, enabling device networking - simply. The product is based on open systems and industry standards for easy integration and compatibility. Simply connect.

ITACH FAMILY

The Global Caché™ iTach is a family of products designed to connect almost any electrical device to a network in a matter of minutes. Based on open systems and industry standards, the ultra-compact device fits almost anywhere (even the palm of your hand) and includes a choice of wireless WiFi or wired TCP/IP connectivity to infrared (IR), serial (RS232), and contact closure (relay) equipment.

The innovative design of the Global Caché iTach allows for easy and flexible integration into any networked control solution. The iTach is a simple wired or wireless conduit between you and your device over a network or the Internet. This is instant network-enabling at its best, delivering the power of choice at a cost-effective price.

ITACH IP MODELS

iTach IP to IR: Model IP2IR

The iTach IP2IR provides wired TCP/IP connectivity to IR devices

iTach IP to IR with PoE: Model IP2IR-P

Model IP2IR with Power over Ethernet enabled

iTach IP to Serial: Model IP2SL

The iTach IP2SL provides wired TCP/IP connectivity to serial devices

iTach IP to Serial with PoE: Model IP2SL-P

Model IP2SL with Power over Ethernet enabled

iTach IP to Contact Closure: Model IP2CC

The iTach IP2CC provides wired TCP/IP connectivity to contact closure devices

iTach IP to Contact Closure with PoE: Model IP2CC-P

Model IP2CC with Power over Ethernet enabled



Technical Specs

ITACH IP2IR - ITACH IP2SL - ITACH IP2CC - ITACH IP2IR-P - ITACH IP2SL-P - ITACH IP2CC-P

Power Input (3 Configurations)	-5 to 16V DC@300mA (90 to 230V wall power adapter included) International plugs available -USB power cable draws power from USB port (included) -Power over Ethernet (PoE) on -P models
Setup	Integrated web server for easy configuration Configure through TCP/IP set up commands
iHelp Setup Utility	Downloadable iHelp software simplifies network discovery and setup
IR Learning Utility	Downloadable iLearn software allows for the capture and playback of IR commands for control uses
Network Connection	RJ45 connector 100/10 Mbits Ethernet protocol Adheres to TCP, DHCP and HTTP standards
LED Indicators	Power and all connectors to indicate activity
IR and Sensor Interface (IP2IR Only)	Connector: 3.5mm stereo jack 3 Independent selectable IR outputs or sensor inputs 3 IR emitters included 1 IR blaster included (supported on 3rd IR port)
Serial/RS232 (IP2SL Only)	Male DB9 Connector 1200 baud to 115.2 Kbaud data rates supported Odd, Even, and None parity settings Bi-directional with hardware RTS/CTS flow control
Contact Closure/ Relay (IP2CC Only)	3 Integrated contact closure relays w/ transient voltage suppression Pluggable screw terminal 24V AC/DC@.5A N.O. contact Allows for isolated switching of low voltage wiring
Device Packaging	Aluminum extrusion case, rubber end caps and plastic face plates Dimensions (LxWxH): 3.25" x 2.25" x 1.25" Weight: 3.25 oz. (6 oz. with power supply)
Certifications	FCC (Part 15, Class B), C-tick, CE RoHs compliant
Shipping Box Dimensions	(LxWxH) 9.0" x 3.5" x 2.0" Weight: 1 lb.
Warranty	Two year limited warranty Support available via phone, email, and comprehensive support portal



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 FEATURES

- Connects almost any electrical device to an Ethernet/wired network instantly
- Access, monitor, automate, and control standalone equipment
- IR blasters and IR emitters included
- Supports eight simultaneous connections
- Ultra compact design, stylish enclosure can fit almost anywhere
- On board web server for easy setup, HTTP, DHCP
- Built in IR learning in every unit
- Flash upgradeable for firmware enhancements in the field
- Made in the USA and RoHS compliant



WWW.GLOBALCACHE.COM

© 2010 Global Caché, Inc. All Rights Reserved. All brand names, products, and trademarks are property of their respective owners. Information subject to change without notice. PN: 060110-01 ver. 1. Printed on recycled and FSC certified wood paper with soy inks.



Global Caché

Corporate Headquarters:
160 East California Street
PO Box 1659

Jacksonville, Oregon 97530 U.S.A.

Telephone: 541-899-4800

Fax: 541-899-4808

www.globalcache.com - sales@globalcache.com

iTach Family of Products

WiFi to IR, Serial, & Contact Closure

CONNECT ALMOST ANY DEVICE TO A WIFI NETWORK IN MINUTES. **SIMPLY.**

Instantly WIFI-enable any device.
Control IR, Serial, and Contact
Closure over a network, wirelessly.

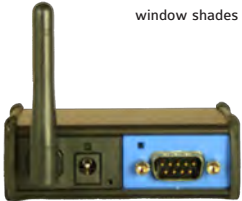
INFRARED

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



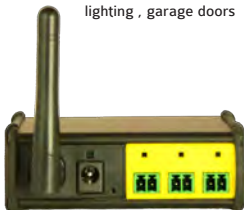
SERIAL

Speakers, TVs, computers, motorized window shades



CONTACT CLOSURE

Motorized window shades, pool and spa, lighting, garage doors



Wirelessly connect, monitor, automate, and control infrared, serial, and contact closure devices over a network and the Internet. The iTach™ provides a new level of control flexibility, enabling device networking without wiring. The product is based on open systems and industry standards for easy integration and compatibility. Simply connect.

ITACH FAMILY

The Global Caché™ iTach is a family of products designed to connect almost any electrical device to a network in a matter of minutes. Based on open systems and industry standards, the ultra-compact device fits almost anywhere (even the palm of your hand) and includes a choice of wireless WiFi or wired TCP/IP connectivity to infrared (IR), serial (RS232), and contact closure (relay) equipment.

The innovative design of the Global Caché iTach allows for easy and flexible integration into any networked control solution. The iTach is a simple wired or wireless conduit between you and your device over a network or the Internet. This is instant network-enabling at its best, delivering the power of choice at a cost-effective price.

ITACH WIFI MODELS

iTach WiFi to IR: Model WF2IR

The iTach WF2IR provides WiFi connectivity to IR devices

iTach WiFi to Serial: Model WF2SL

The iTach WF2SL provides WiFi connectivity to serial devices

iTach WiFi to Contact Closure: Model WF2CC

The iTach WF2CC provides WiFi connectivity to contact closure devices

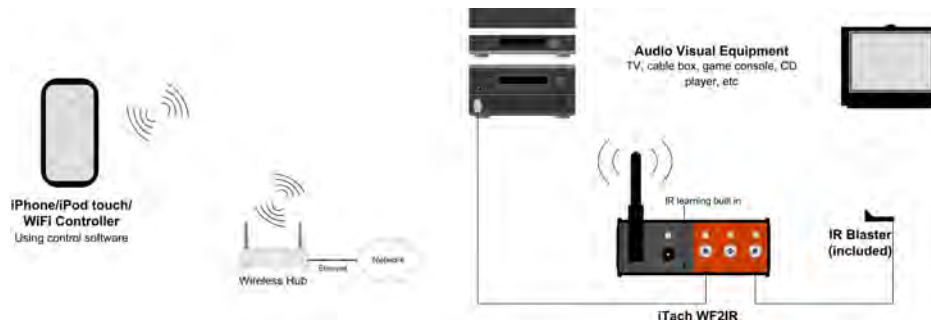


Technical Specs

ITACH WF2IR - ITACH WF2SL - ITACH WF2CC

Power Input	5 to 16V DC@300mA (90 to 230V wall power adapter included) International plugs available USB power cable draws power from USB port (included)
Setup	Integrated web server for easy configuration Configure through TCP/IP set up commands
iHelp Setup Utility	Downloadable iHelp software simplifies network discovery and setup
IR Learning Utility	Downloadable iLearn software allows for the capture and playback of IR commands for control uses
Network Connection	Industry standard 802.11b wireless interface, 2.5" antenna Supports wireless LAN, adhoc (for setup) and infrastructure modes Compatible to 802.11b/g
LED Indicators	Power and all connectors to indicate activity
IR and Sensor Interface (WF2IR Only)	Connector: 3.5mm stereo jack 3 Independent selectable IR outputs or sensor inputs 3 IR emitters included 1 IR blaster included (supported on 3rd IR port)
Serial/RS232 (WF2SL Only)	Male DB9 Connector 1200 baud to 115.2 Kbaud data rates supported Odd, Even, and None parity settings Bi-directional with hardware RTS/CTS flow control
Contact Closure/ Relay (WF2CC Only)	3 Integrated contact closure relays w/ transient voltage suppression Pluggable screw terminal 24V AC/DC@.5A N.O. contact Allows for isolated switching of low voltage wiring
Device Packaging	Aluminum extrusion case, rubber end caps and plastic face plates Dimensions (LxWxH): 3.25" x 2.25" x 1.25" Weight: 3.25 oz. (6 oz. with power supply)
Certifications	FCC (Part 15, Class B), C-tick, CE RoHs compliant
Shipping Box Dimensions	(LxWxH) 9.0" x 3.5" x 2.0" Weight: 1 lb.
Warranty	Two year limited warranty Support available via phone, email, and comprehensive support portal

Infrastructure Network



Global Caché's iTach products integrate easily with iPhone/iPad/iPod and Android apps. The iTach's built-in WiFi 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 FEATURES

- Connects almost any electrical device to a wireless network instantly
- Access, monitor, automate, and control standalone equipment
- IR blasters and IR emitters included
- Supports eight simultaneous connections
- Ultra compact design, stylish enclosure can fit almost anywhere
- On board web server for easy setup, HTTP, DHCP
- Built in IR learning in every unit
- Flash upgradeable for firmware enhancements in the field
- Made in the USA and RoHS compliant



Global Caché

Corporate Headquarters:
160 East California Street
PO Box 1659
Jacksonville, Oregon 97530 U.S.A.
Telephone: 541-899-4800
Fax: 541-899-4808
www.globalcache.com - sales@globalcache.com

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

ITACH FLEX - FLEX LINK CABLES - IR EMITTER - IR BLASTER - IR TRI-PORT - SERIAL

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



WWW.GLOBALCACHE.COM



Global Caché

Corporate Headquarters:
160 East California Street
PO Box 1659

Jacksonville, Oregon 97530 U.S.A.

Telephone: 541-899-4800

Fax: 541-899-4808

www.globalcache.com - sales@globalcache.com

GC-100 Network Adapter

Add Any Device to a Network in Minutes

Global Caché's GC-100 family of Network Adapters connects almost any piece of electronic equipment to a network so that it can be accessed, controlled, and maintained from anywhere over a network or the Internet. Our Network Adapters employ a unique and transparent architecture that is engineered to seamlessly integrate with all types of control, automation, and monitoring environments. Compact and economical, they provide a quick, simple and cost-effective way to bring the advantages of device networking to homes, educational institutions, businesses, and houses of worship.

GC-100 Models

GC-100-06

- Power input
- Network connection
- Serial port
- Three independent IR outputs or sensor inputs
- Dimensions: 6.0" L x 3.0" D x 1.3" H

GC-100-12

- Power input
- Network connection
- Two serial ports
- Three relay connections
- Six independent IR outputs or sensor inputs
- Dimensions: 12.0" L x 3.0" D x 1.3" H

GC-100-18

- Same configuration as GC-100-12
- Dimensions: 17.5.0" L x 3.0" D x 1.3" H

GC-100-18R

- Same configuration as GC-100-18 with rack mount kit installed
- 1U rack height



Key Features

- Network virtually any device in minutes
- Connects infrared (IR) devices to a TCP/IP network, including IR input
- Connects RS232, Sony Control-S devices, and sensors to a TCP/IP network
- Connects contact closure (relay) devices to a TCP/IP network
- Works well with wireless
- Low profile, stylish enclosure
- Peripheral equipment includes IR learning and IR input over a TCP/IP network
- Available in 3 sizes with a 19" rack mount version
- Silent, fan-free, environmentally friendly RoHS compliant

Technical Specifications

Power Input

- 9 to 18V DC@300mA (wall power adapter included)
- International 220V available

LED Indicators

- Power
- Network activity
- Link status
- IR transmission
- Sensor input state
- GC-100 visual ID

Setup

- Integrated web server for easy configuration
- Configure through TCP/IP set up commands

Discovery & Setup Utility

- Included Windows-based software simplifies GC-100 network discovery of units and setup
- AMX beacon support

Network Interface

- Connector: RJ45
- Protocol: 10 Base-T Ethernet
- Standards: TCP, DHCP, HTTP

Serial Interface

- Connector: Male DB9
- Data Rates: 1200 baud to 57.6 Kbaud
- Parity: odd, even, none
- Flow control: bi-directional hardware RTS/CTS
- IR input: utilizing a GC-IRE and GC-RG1, IR commands are received via RS232 port.

IR & Sensor Interface

- Connector: 3.5mm stereo jack
- Selectable IR outputs or sensor inputs per port
- IR input: IR commands received via RS232 port utilizing GC-IRE and GC-RG1
- IR emitter supplied for each IR port
- GC-BL2 IR Blaster support

Relay Interface

- Connector: screw terminal plug, 24V AC/DC@.5A, N.O. contact with transient voltage suppression
- Capability: contact closures

Certifications

- FCC (Part 15, Class B), C-tick, CE
- RoHS compliant

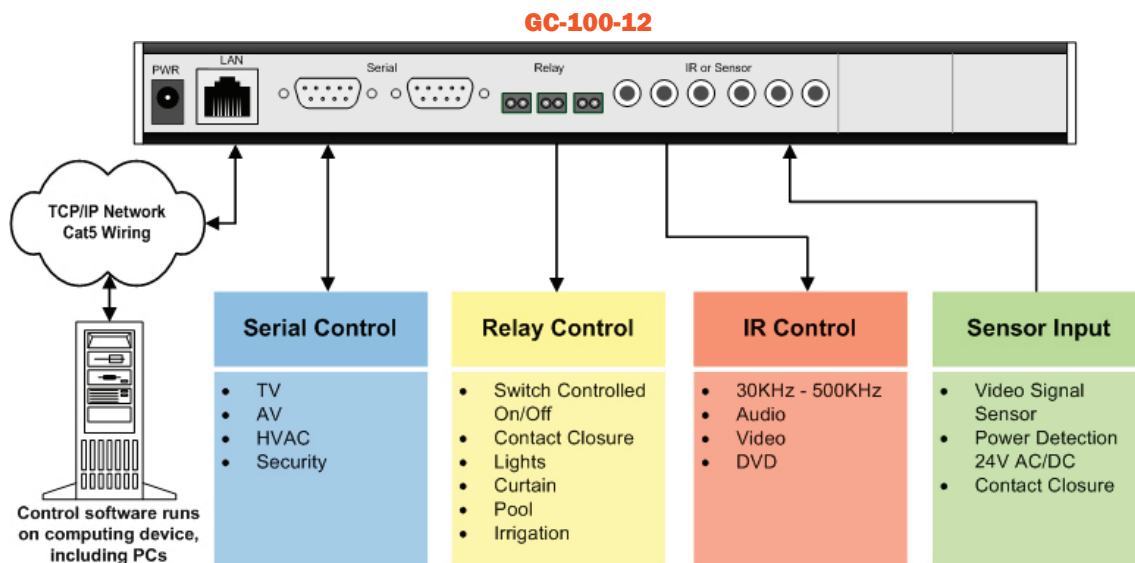
Software

- Product
 - GC-IRL Learner Utility
 - Discovery & Setup Utility
- Development and Testing
 - GC-100 Test Utility
 - GC-CCF Conversion Utility
 - GC-Scan Test Utility
 - IR Test Utility

Warranty

- One year limited warranty
- Support available through phone and email, as well as extensive online library

Connect Devices to a Network with a GC-100



Member



Global Cache

Corporate Headquarters:

160 East California Street
PO Box 1659

Jacksonville, Oregon 97530 U.S.A.

Telephone: 541-899-4800

Fax: 541-899-4808

www.globalcache.com - info@globalcache.com