

Proven advanced starting points

**GT-T38 T.38 Fax over IP SDK**

**Software Solution**

GT-T38 is an all-in-one SIP-based T.38 Fax over IP embedded software solution. The GT-T38 SDK enables an end-to-end T.38 fax over internet session over the SIP/SDP protocol, capable of powering T.38 end-points, gateways, and fax relays. The all-inclusive software solution includes T.38 Real-time Internet Fax Processing, T.30 Fax Control Protocol, T.4/T.6 and TIFF image processing, complete with SIP/SDP protocol with T.38 Annex D extensions, and RTP.

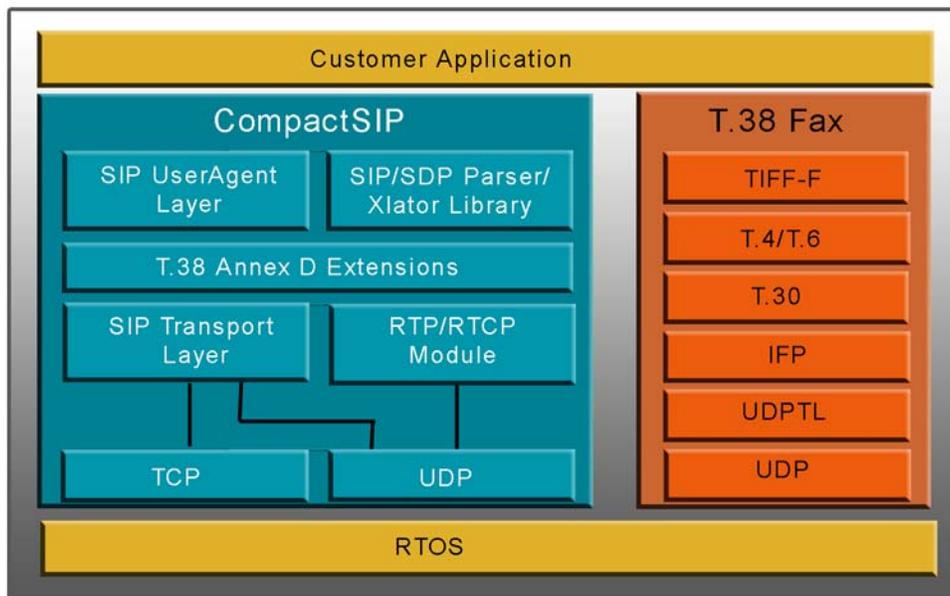
The GT-T38 is a fully optimized software solution that integrates GAO's field proven T.38 embedded FoIP fax relay software with TeleSoft's proven CompactSIP protocol stack. GAO's T.38 Fax interfaces with TeleSoft's SDP protocol to initiate a T.38 fax over internet session using SIP + SDP according to T.38 Annex D. TeleSoft's SIP + SDP stack manages the IP fax session while GAO's T.38 handles all fax data and image processing. This complete SIP T.38 Fax solution allows rapid deployment of fax over IP gateways, relays, and Internet aware fax devices by manufacturers and service providers, greatly reducing their R&D effort and time to market while minimizing technical risk.

**GT-38 Features**

- ◆ Full compliance to ITU-T T.38 standard for real-time Internet fax processing
- ◆ Supports all fax data pumps V.34, V.17, V.29, V.27ter, V.21 channel 2
- ◆ Includes T.30 Fax Control Protocol
- ◆ Includes T.4/T.6 and TIFF image formats
- ◆ Includes SIP/SDP protocol with T.38 Annex D extensions.
- ◆ Includes UDP and RTP/UDP processing
- ◆ SIP T.38 Annex D Extension
- ◆ SIP Supplementary Services
- ◆ Support for many DSPs and microprocessors

**Typical Applications**

- ◆ T.38 Fax Gateways
- ◆ Internet Aware Fax Devices
- ◆ Internet Fax Servers
- ◆ ATA/Residential Gateways



Supplied by customer      Supplied by TeleSoft      Supplied by GAO

GT-T38 Block diagram

## CompactSIP Overview

CompactSIP is a modular SIP solution supplied in ANSI C source code that was developed specifically for embedded applications where small memory footprint and high efficiency are important requirements. CompactSIP has been deployed in millions of devices operating on a worldwide basis in embedded, mobile and desktop applications.

The modular architecture of CompactSIP allows a developer to select just the modules required for the application thus optimizing the performance while providing for a very cost effective solution. The Fax over IP application is an excellent example since only four of the available 15 CompactSIP modules are required to enable a high performance FoIP T.38 End point or T.38 Fax Gateway.

### CompactSIP is proven:

- ◆ Extensively interop tested at multiple SIPits and against Asterisk and 35+ 3rd party User Agents & Proxies.
- ◆ Routinely torture tested against IETF RFC 4475 and PROTOS test suites and in our own test labs.

### Tailoring to Your Application:

- ◆ Modular structure allows optimum code matching to application.
- ◆ Licensing only the modules required enables the most cost effective solution.

## TeleSoft Advantages

Written in ANSI C and delivered as a source code SDK ported to a defined RTOS of your choice, a CompactSIP stack or a TsSmartPhone SIP stack gives you an advanced starting point to shorten your development schedule and minimize technical risk while maintaining the flexibility to exercise full control over your end product or application.

### High-Level and Low-Level Application Programming Interfaces (API)

Developers building a mobile phone or relatively simple softphone application, can use the high-level TsSmartPhone GUI. Developers who will benefit from access to the full range of CompactSIP capabilities have access to a rich, low-level API.

CompactSIP is engineered to require minimal knowledge of SIP and minimal formatting of SIP messages to build simple products, while providing flexibility and power for complex applications to more fully control SIP message content and add functions.

### Upgrade and Individual Modules

Available SIP related modules include support for AS-SIP (Assured Services-SIP), NAT Traversal, RTP, Security, SIMPLE, STUN, Supplementary Services and TsSmartPhone.

### Well-Structured, Maintainable Code

Maintainability and scalability are designed into each CompactSIP stack. Comprehensive comments and documentation support you as your project goes forward. The value of CompactSIP stacks will be evident in each phase of your engineering schedule and each CompactSIP product's life span.

### Documentation

Comprehensive documentation includes API Guides, Porting Guides, Internals Guides and User Guides. All are provided in a searchable soft format.

### Technical and Custom Support

3-months technical support is included with each license. 12-month maintenance extensions include code updates and quick-response technical support via E-mail, phone and fax.

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#### About TeleSoft International

TeleSoft International, Inc., is an industry-leading, US-based provider of field-proven, scalable, standards-based protocol stacks for developers. We specialize in telecom applications, licensing source code stacks to OEMs and ODMs worldwide for VoIP, ISDN, Q.931, Q.921, QSIG, Supplementary Services, ML-PPP, PPP, Frame Relay, T1 RBS, E1 CAS R2, and X.25.

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