

ENEAA® T38GW-BRICKS



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Fax Over IP Gateway Protocols SIP – T.38 – SoftModem

ITU-T T.38 recommendation specifies the communication protocol to be used between facsimile gateways or between facsimile gateways and IAF (Internet Aware Fax device) connected via an Internet network in order to transfer fax between G3FEs (Group 3 Fax Equipments) connected to facsimile gateways via PSTN (Public Switched Telephone Network) or between G3FEs and IAFs.

Enea has developed a fax transmission and protocol software package named Enea® T38GW-Bricks designed to be incorporated in equipments performing Fax to Foip gateway functions.

Enea T38GW-Bricks is a time and risk saving solution to develop fax gateways. Fully portable in a wide variety of hardware and software configurations, it deals with complexity of mixing circuit/modem and IP/Packet technologies applied to fax transmission.

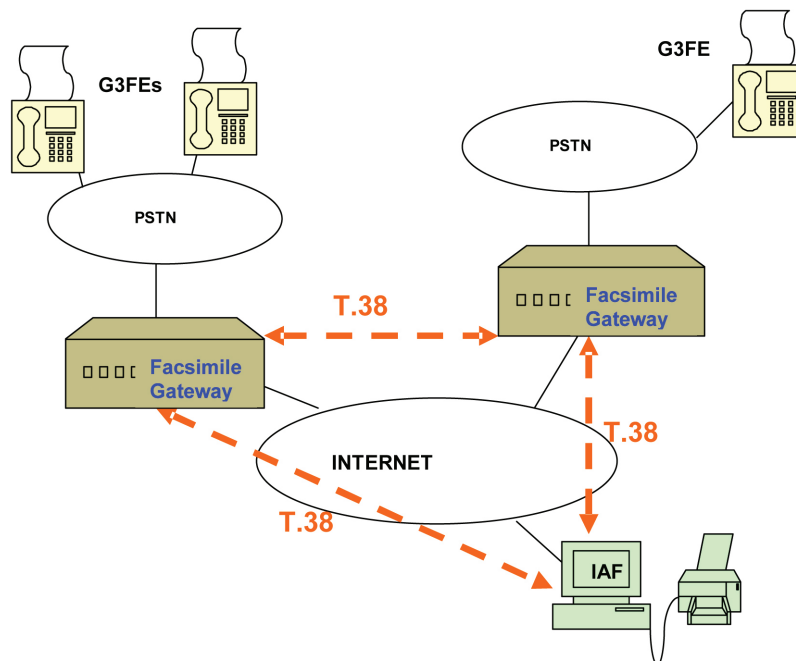
Enea T38GW-Bricks Features

Enea T38GW-Bricks is a portable software package written in 'C' language that integrates the following communication protocols and transmission technology:

- SIP Session Initiation Protocol as specified by IETF RFC 3261 and featuring numerous extensions including RFC 3362 for support of T.38 in Enea SIP. Enea Netbricks SIP protocol implementation is available as a standalone software

product named Enea® SIP-Bricks and widely used in Terminals, Servers (registrar, redirect or unified messaging servers) as well as in Proxy.

- T.38 fax over IP transport protocol as defined by ITU-T T.38 recommendation (2002) and also compliant with ITU-T T.38 Amendment 3 "Implementation guidelines. Enea Netbricks T.38 protocol is already in use in a lot of residential gateways, media gateways and fax servers.
- Fax softmodem up to V.17 or V.34 hdx modulations for fax group 3 transmission over PSTN. Enea Netbricks softmodem known as Enea® Softmodem-Bricks is embedded in a large number of leading fax devices and servers worldwide.
- A supervision module with a control API that can be accessed through regular socket and is used to synchronize Enea T38GW-Bricks with local PSTN signaling (analog, ISDN or SS7). This API also includes extensive reports to monitor fax relaying and log events.



Enea T38GW-Bricks can be mounted as a server process driven thanks to its control API. Such architecture authorizes a high level of scalability by duplicating

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server processes according to traffic requirements.

Optionally, a local recording facility can be provided to enable archiving of relayed fax.

Quick start projects are available for Windows and Linux operating systems including technology license, makefiles and basic operational application example.

Enea Netbricks ("audit") built-in logging mechanism is included providing

a dynamic tool to trace internal operations of Enea T38GW-Bricks package.

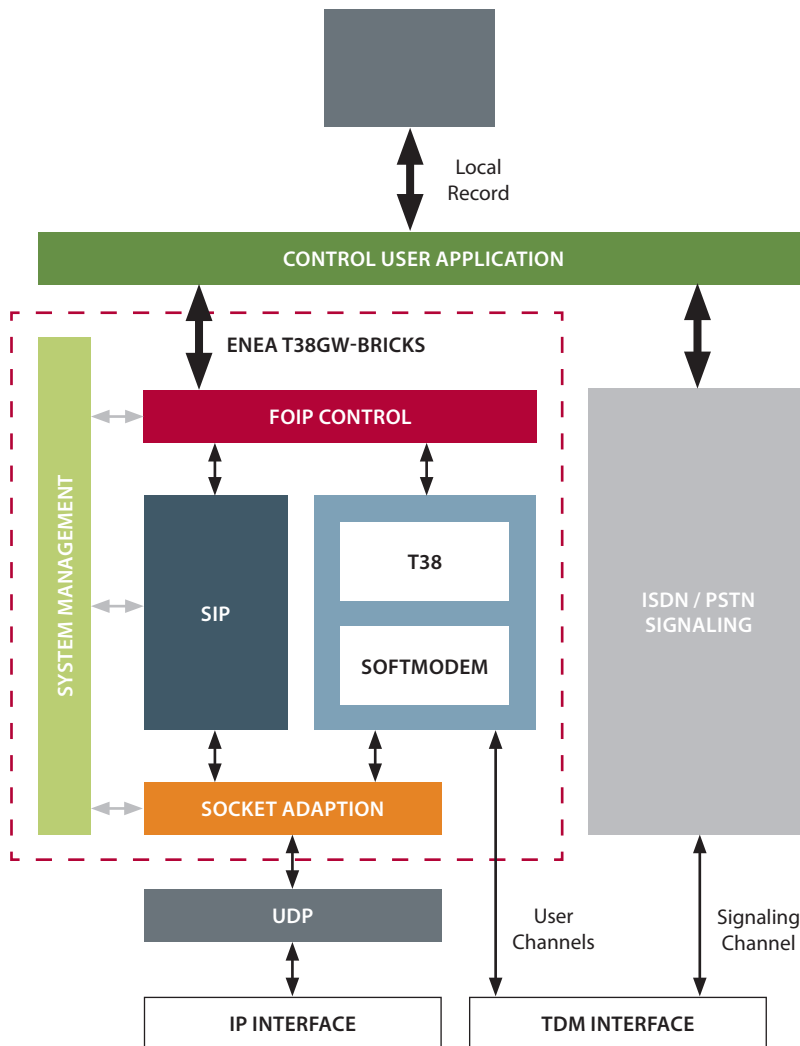
Enea T38GW-Bricks is designed to interface UDP/IP networking stack through BSD like sockets. Interface to most of commercial OS and RTOS is provided: Windows, Linux, Solaris®, Enea OSE®, VxWorks®, Nucleus®...

Enea T38GW-Bricks is addressed to the OEM market and supplied under the form of a source code license.

Thanks to its flexible and scalable design it can be used in a wide variety of systems from residential gateways to large infrastructure equipments supporting numerous simultaneous sessions.

Enea T38GW-Bricks can be completed by Netbricks TDM signaling protocols packages like Enea® ISDN-Bricks or Enea® SS7-Bricks to perform call control over local ISDN/PSTN access.

Enea also proposes a FoIP terminal or server portable software package named Enea® IAF-Bricks including T.38, T.30 and SIP protocols as well as a server application interface layer. This package is easy to integrate to provide cost effective solution for fax servers or unified messaging systems.



Enea T38GW-Bricks Software Architecture

- SM: system management
- UDP: UDP/IP protocol stacks
- Socket Adaptation : BSD socket like interface
- T38: T38 IFP Internet Fax protocol module
- SoftModem: Fax modulation per software up to V.17 or V.34hdx
- FoIP control: control module with coordination API
- SIP: SIP (Session Initiation Protocol) protocol module

