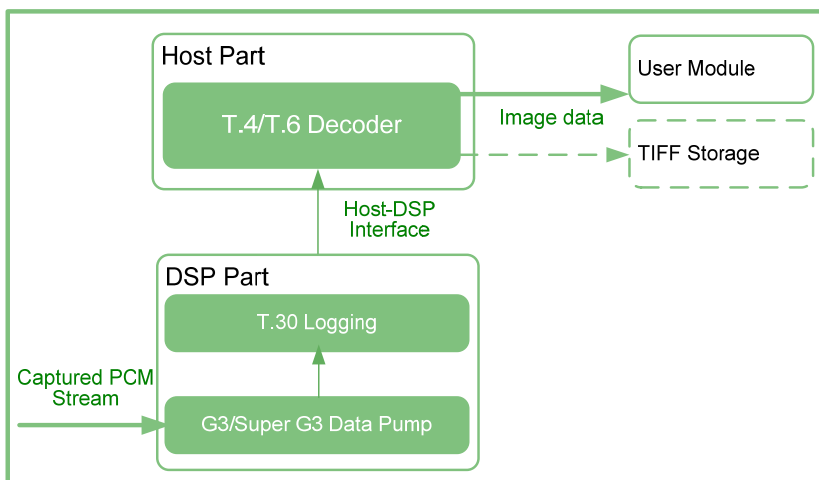


## G3/Super G3 Fax Logging

SPIRIT G3/Super G3 Fax Logging solution is a software module that monitors and stores facsimile messages passing over the telephone line to which it is attached. There are two general modes of operation – real-time and post-processing.

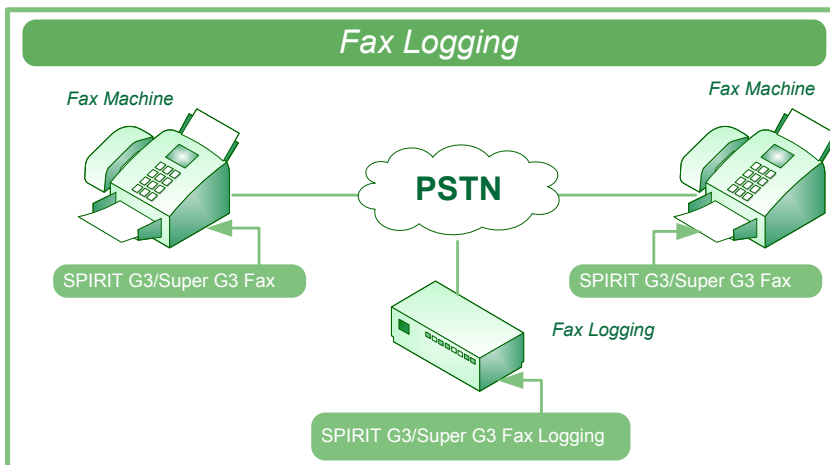
This software module passively listens to the phone line and detects facsimile (G3/Super G3 Fax) traffic passing through, decodes it in compliance with T.4/T.6 standards and stores resulting image data for further use. Decoded fax images are saved in BMP or TIFF graphical formats, allowing the user to view or print the images using standard system tools. Caller ID data, such as phone number and/or name of the caller, is also detected and stored.



SPIRIT Fax Logging solution is based on V.34 modem providing 33 600 bps rate, which is a significant advantage over the common 14 400 bps standard.

The solution interprets a wide range of non-standard negotiated fax sessions – no need to worry about losing fax messages encoded with proprietary protocols.

SPIRIT Super G3 Fax Logging offers a number of additional modes that can be useful under specific circumstances, such as mono recording of one-way signal when responding fax machine signal is not heard. With sufficient MIPS and memory available, the solution could easily monitor multiple fax lines at the same time. This is why SPIRIT solution is best-suited to be implemented on specialized large-scale gateways.



### Benefits

- True multi-channel
- Hardware independent

### Key Features

- ECM (error correction mode) support
- T.4 1D (MH), T.4 2D (MR), T.6 (MMR) image compression

### Applications

- Call centers
- Media servers

### Availability

- |            |     |
|------------|-----|
| • PC       | Now |
| • TI C54xx | Now |
| • TI C55xx | Now |
| • TI C64xx | Now |

### Features

- ECM (error correction mode) support
- Reliable fax data pump capable of operating on the poorest telephone lines
- Easily extendable T.30 code supporting the majority of standard features out-of-the-box
- T.4 1D (MH), T.4 2D (MR), T.6 (MMR) image compression supported
- All standard resolutions supported
- True multi-channel code
- Hardware independent

## Specifications

Platform	C54xx (G3 mode @14.4 kbps)
Peak MIPS	8.4
Program Memory, KWords	10.6
Constant Memory, KWords	2.8
Dynamic Memory, KWords	1.2 x Number of channels

Platform	C55xx	
	G3 mode (14.4 kbps)	SuperG3 mode (33.6 kbps)
Peak MIPS	8.4	150
Program Memory, KB	21.2	65
Constant Memory, KB	5.6	20
Dynamic Memory, KB	2.4 x Number of channels	15 x Number of channels

Note: Memory requirements are provided for the standalone variant of this object, not including T.30. In actual systems it may be possible to reduce memory requirements by sharing common resources such as sine table, I/O buffers, etc with other objects (e.g. V.32bis modem).

## Performance

Dynamic range	>50 dB
Distortions compensation	CONUS Poor Voice and all other TAS channels
Phase Jitter	40 deg for V.17, 20 deg for V.29 (G3 mode only)
Frequency offset	+/-10 Hz
Baud frequency offset	+/-100 ppm

## CONTACTS

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