

SPIRIT Gateway Bundle

SPIRIT Gateway Bundle is a configurable software library to manufacture VoIP infrastructure equipment. Based on advanced SPIRIT voice processing technologies, Gateway Bundle allows equipment manufacturers to ensure top voice quality, save integration costs, add new features to existing products and streamline the launch of new ones.

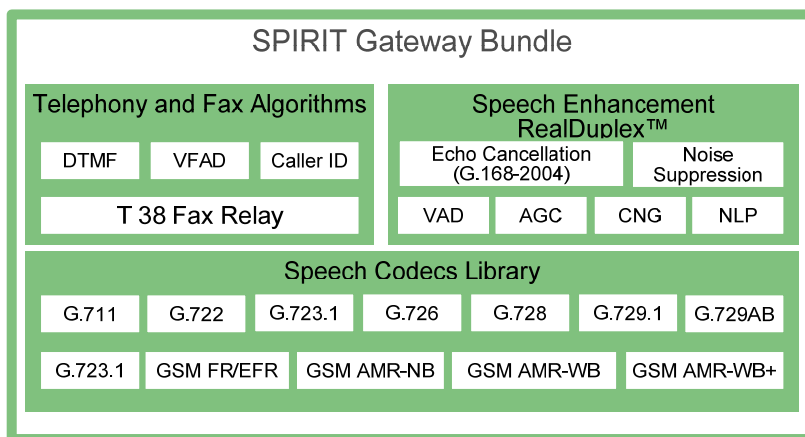
Overview

SPIRIT Gateway Bundle is an ideal solution for VoIP-enabled infrastructure equipment, like VoIP gateways, trunking and wireless gateways, media and transcoding servers, IP-PBXs.

SPIRIT Gateway Bundle is optimized to minimize CPU load and memory consumption and can be used to create high capacity (dozens thousands of channels) VoIP gateways.

Low MIPS consumption makes even cost-effective CPUs suitable for VoIP gateways.

SPIRIT Gateway Bundle is a complete library which includes speech codecs library, speech enhancement for superior voice quality, telephony signaling algorithms and fax relay.



SPIRIT Gateway Bundle includes the following components

- **Speech Codecs** developed according to open recommendations and optimized for target platforms.
- **Speech Enhancement** including highly optimized algorithms for network echo cancellation (up to 128 ms) and noise suppression. These algorithms are developed according to G.168-2004 recommendation.
- **Telephony&Fax algorithms** supporting all features of G3/Super G3 Fax including error correction mode and advanced jitter buffer management Standard and extended CPTD tones, DTMF, MF-R1, MF-R2, Caller ID.

Benefits

- High quality voice processing
- Configurable software library
- Low integration cost
- High channel capacity per chip

Key Features

- Full range of speech codecs
- Advanced speech enhancement algorithms
- Cutting-edge telephony and fax processing

Applications

- SOHO/SMB gateways
- Trunking gateways
- Media servers
- Transcoding servers
- Wireless gateways
- IP-PBX

Availability

- ARM9
- ARM9E
- TI C54x
- TI C55x
- TI C64x
- XScale

SPiRiT Gateway Bundle Applications

Component	Applications			
	SOHO/SMB Gateway	Trunking Gateway	Transcoding Server	IP-PBX
Speech Codec Library				
G.711	✓	✓	✓	✓
G.729AB	✓	✓	✓	✓
G.723.1	✓	✓	✓	✓
G.726	✓	optional	✓	✓
G.728	optional	optional	✓	✓
G.722	optional	optional	✓	✓
G.729.1	optional	optional	optional	optional
GSM FR	optional	optional	optional	optional
GSM EFR	optional	optional	optional	optional
GSM AMR-NB	optional	–	optional	optional
GSM AMR-WB	optional	–	optional	optional
GSM AMR WB+	optional		optional	optional
iLBC	optional	–	optional	optional
Telephony&Fax Algorithms	✓	–	–	optional
Speech Enhancement Algorithms	✓	✓	–	–

SPiRiT Gateway Bundle Components

Speech Codecs	<ul style="list-style-type: none"> G.711, G.722, G.723.1, G.726, G.728, G.729.1, G.729AB, GSM FR, GSM EFR, EVRC, GSM AMR NB, GSM AMR WB, GSM AMR WB+, iLBC
Speech Enhancement	<ul style="list-style-type: none"> LEC (G.168-2004), NC, VAD, CNG, NLP
Telephony&Fax	<ul style="list-style-type: none"> DTMF, CID, Voice Fax Auto Detection, T38 Fax Relay

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