



Complete Listing of eXpressDSP™-Compliant Third-Party Algorithms

Updated May 2004

Third Party	3P Website	TI DSP Device			Application										
		C2000™	C5000™	C6000™	Audio	DMC	Fax	Protocol Stacks	Security	Speech	Telephony	VB Modems	Video & Imaging	Vocoders	Wireless
Acoustic Technologies, Inc.	www.acoustictech.com	X		X							X				
Adaptive Digital Technologies, Inc.	www.adt-inc.com		X								X			X	
Advanced Recognition Technologies, Inc.	www.artcomp.com		X							X					
Alango	www.alango.com/		X		X										
Aliph Com	www.aliph.com		X		X										
ATEME	www.ateme.fr		X	X	X								X		
Bayer DSP	www.dsp-bayer.com		X					X			X				X
Clarity, LLC	www.clarityco.com		X							X					
Commetrex Corp.	www.commetrex.com		X	X				X			X			X	
Creative DSP Solutions, Inc.	www.creativedsp.com		X		X										
CuTe Solutions	www.cutesolinc.com/			X	X										
Cybernetics Infotech	www.cybit.com		X											X	
D2 Technologies, Inc.	www.d2tech.com		X								X			X	
D+R Electronika B.V.	www.d-r.nl			X	X										
DACS Software Pvt. Ltd.	www.dacsindia.com		X								X				
Dilithium Networks	www.dilithiumnetworks.com		X	X							X				
DSP Wizard	www.dspwizard.com		X											X	
DSPecialists GmbH	www.dspecialists.de		X	X	X										
e-Infochips, Inc.	www.einfochips.com			X	X										
easytools s.l.	www.easytools.es		X						X						
Electronic Design Associates, Inc.	www.useda.com		X		X										
Emuzed, Inc.	www.emuzed.com		X	X									X		X
Encore Software Ltd.	www.ncorettech.com		X	X										X	
Enounce, Inc.	www.enounce.com		X		X										
eSecurium	www.esecurium.com		X						X						
Ethentica by Security First Corp.	www.ethentica.com		X						X				X		
Fonix Corp.	www.fonix.com		X							X					
Fraunhofer IIS	www.iis.fhg.de			X	X										
GAO Research, Inc.	www.gaoresearch.com	X							X	X	X		X		
Global IP Sound AB	www.globalipsound.com	X												X	
HelloSoft, Inc.	www.hellosoft.com		X								X			X	X
IdenCom	www.idencom.com/			X					X				X		
IdentAlink	www.identalink.de/			X					X				X		
ILLICO	www.illico.com		X	X				X			X				
Ingenient Technologies, Inc.	www.ingenient.com		X	X	X				X	X	X		X	X	
Ittiam Systems Private Limited	www.ittiam.com		X	X	X					X			X	X	



Complete Listing of eXpressDSP™-Compliant Third-Party Plug-Ins

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eXpressDSP-Compliant Plug-Ins Available Today Include:

Name	Contact	Stage of the Development Cycle				TI DSP Platform		
		Application Design	Code & Build	Debug	Analyze & Tune	C6000™	C5000™	C2000™
Borland Corporation CodeWright	www.borland.com		X			X	X	
Elanix SystemView's Real-Time DSP Architect	www.elanix.com	X	X			X	X	
National Instruments / Hyperception, Inc. eXpressDSP™ Component Wizard	www.ni.com	X				X	X	X
LabView DSP Test Integration Toolkit for TI DSP		X		X	X	X	X	X
Visual Application Builder		X	X		X	X	X	X
Pentek, Inc. SwiftNet Debug Manager	www.pentek.com	X				X		
SwiftNet Project Manager		X				X		
Rational Software Corporation Rational Test Real-Time Plug-In	www.rational.com			X	X	X		
Technosoft Control Panel Global Variable Visualizer for Digital Motor Controllers (DMCs)	www.technosoft.ch				X			X
Graphical I/O Registers Viewer for DMCs					X			X
Data Logger Tool for DMCs					X			X
Reference Generator for Motion Reference for DMCs				X	X			X
The MathWorks, Inc. Filter Design Toolbox	www.mathworks.com	X	X			X	X	X
MATLAB® Link for Code Composer Studio (CCStudio) IDE			X	X	X	X	X	X
SIMULINK® Embedded Target for C6000™ DSP Platform		X	X	X	X	X		
Vector Software, Inc. VectorCAST for CCStudio	www.vectors.com			X		X	X	X
Visual Solutions Incorporated VisSim™-CCStudio Plug-In	www.vissim.com	X	X			X		X

X – supported



AUDIO

eXpressDSP™-Compliant Third-Party Algorithms

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Compliant Algorithm	Generation	Third-Party Vendor
3D Stereo	C54x	Spatializer Audio Labs
3D Stereo	C55x	Spatializer Audio Labs
AAC Decoder	C54x	Ingenient Technologies
AAC Decoder	C55x	SPIRIT CORP.
AAC Decoder	C62x	Ingenient Technologies
AAC Decoder	C62x	SPIRIT CORP.
AAC Decoder	C64x	SPIRIT CORP.
AAC Encoder	C62x	Ingenient Technologies
Acoustic Echo Cancellor	C54x	Creative DSP Solutions
Acoustic Echo Cancellor	C54x	Ingenient Technologies
Acoustic Echo Cancellor	C54x	Indesign
Acoustic Echo Cancellor	C54x	SPIRIT CORP.
Acoustic Echo Cancellor	C55x	Creative DSP Solutions
Acoustic Echo Cancellor	C55x	Ingenient Technologies
Acoustic Echo Cancellor	C55x	SPIRIT CORP.
Acoustic Echo Cancellor	C64x	Ingenient Technologies
Adaptive Noise Cancellor	C54x	DSPecialists GmbH
ASF-M	C54x	NCT Group
ATM-SAR Software Solution (AAL2 Support)	C64x	e-Infochips
ATM-SAR Software Solution (AAL5 Support)	C64x	e-Infochips
Chorus	C67x	Spectral Design
Circle Surround II	C67x	SRS Labs
Compressor	C67x	DSPecialists GmbH
Dialog	C55x	SRS Labs
Equalizer	C67x	DSPecialists GmbH
FEX_C5	C54x	Conversay
Flanger	C67x	DSPecialists GmbH
Full Duplex Echo Cancellation	C54x	SignalWorks
Full Spectrum Dynamic Compression	C54x	Sound ID
Function Generator	C67x	DSPecialists GmbH
Headphones	C54x	Spatializer Audio Labs
Headphones	C55x	Spatializer Audio Labs
Mixer	C67x	DSPecialists GmbH
Mono Eq 4 Band	C67x	D+R Electronika B.V.
MP3 Decoder	C28x	SPIRIT CORP.
MP3 Decoder	C54x	SPIRIT CORP.
MP3 Decoder	C54x	Ittiam Systems
MP3 Decoder	C55x	SPIRIT CORP.
MP3 Decoder Gold	C54x	CuTe Solutions
MP3 Decoder Silver	C54x	CuTe Solutions

Compliant Algorithm	Generation	Third-Party Vendor
MP3 Encoder	C54x	Ingenient Technologies
MP3 Encoder	C54x	CuTe Solutions
MP3 Encoder	C55x	Ingenient Technologies
MP3 Encoder	C55x	CuTe Solution
MP3 Encoder	C62x	CuTe Solution
MP3 Encoder	C62x	Ingenient Technologies
MP3 Encoder	C62x	CuTe Solution
MPEG2 AAC Encoder	C67x	Fraunhofer IIS
MPEG2 L3 Decoder	C54x	Ingenient Technologies
MPEG2 L3 Decoder	C55x	Ingenient Technologies
MPEG2 L3 Decoder	C62x	Ingenient Technologies
MPEG2/4 AAC Decoder	C64x	ATEME
MPEG2/4 AAC Decoder	C64x	Ittiam Systems
MPEG2/4 AAC Encoder	C64x	ATEME
MPEG2/4 AAC Encoder	C64x	Ittiam Systems
MPEG4 AAC LC Decoder	C54x	Ingenient Technologies
MPEG4 AAC LC Decoder	C55x	Ingenient Technologies
MPEG4 AAC LC Encoder	C62x	Ingenient Technologies
MPEG4 AAC LC Encoder	C64x	Ingenient Technologies
MPEG4 Decoder	C55x	Ingenient Technologies
Noise Reduction	C54x	Creative DSP Solutions
Noise Reduction	C55x	Creative DSP Solutions
Noise Reduction, Low Frequency	C54x	Alango
Octimax	C54x	Octiv
Octivox	C54x	Octiv
Pathfinder Noise Suppression	C55x	Aliph Com
Phase Corrected Equalization	C55x	Spatializer Audio Labs
Reverb	C67x	DSPecialists GmbH
Speech Compressor for Hearing Aids	C54x	Two Pi
Time-Scale Tailor	C54x	Enounce
Vi.B.E™	C54x	Spatializer Audio Labs
Vi.B.E	C55x	Spatializer Audio Labs
VoIP	C54x	SPIRIT CORP.
VoIP	C55x	SPIRIT CORP.
VIP – Voice Intelligibility	C54x	SRS Labs
VIP – Voice Intelligibility	C55x	SRS Labs
WMA Decoder	C54x	Ingenient Technologies
WMA Decoder	C55x	CuTe Solution
WOW – Voice	C54x	SRS Labs
WOW – Voice	C55x	SRS Labs



DIGITAL MOTOR CONTROL (DMC)

eXpressDSP™-Compliant Third-Party Algorithms

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Compliant Algorithm	Generation	Third-Party Vendor
Position Control	C24x	Technosoft
RMS Signal Measurement	C24x	RACOM Microelectronics
Speed Control	C24x	Technosoft
Torque Control for BLDC	C24x	Technosoft

Compliant Algorithm	Generation	Third-Party Vendor
Torque Control for IMVC	C24x	Technosoft
Torque Control for PMSM	C24x	Technosoft
Vector PWM for Neutral Point Clamped 3 Level Inverters	C24x	UFMG



FAX

eXpressDSP™-Compliant Third-Party Algorithms

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Compliant Algorithm	Generation	Third-Party Vendor
FAX Bundle (V.17/V.21/V.27/V.29)	C54x	SPIRIT CORP.
FAX G3 Rev 1.0 (V.21/V.27V.29)	C54x	SPIRIT CORP.
T.38 Fax Relay over IP	C54x	SPIRIT CORP.
T.38 Fax Relay over IP	C62x	SURF Communication Solns.
V.17	C54x	SPIRIT CORP.
V.17 Receive	C54x	MESi
V.17 Receive	C62x	Commetrex
V.17 Receive	C62x	ILLICO
V.17 Transmit	C54x	ILLICO
V.17 Transmit	C54x	MESi
V.17 Transmit	C62x	Commetrex
V.21	C54x	SPIRIT CORP.
V.21 Receive	C54x	MESi
V.21 Receive	C62x	Commetrex
V.21 Transmit	C54x	ILLICO

Compliant Algorithm	Generation	Third-Party Vendor
V.21 Transmit	C54x	MESi
V.21 Transmit	C62x	Commetrex
V.27 Receive	C54x	ILLICO
V.27 Transmit	C54x	ILLICO
V.27/V.29 Receive	C62x	Commetrex
V.27/V.29 Transmit	C62x	Commetrex
V.27ter	C54x	SPIRIT CORP.
V.27ter Receive	C54x	MESi
V.27ter Transmit	C54x	MESi
V.29	C54x	SPIRIT CORP.
V.29 Receive	C54x	ILLICO
V.29 Receive	C54x	MESi
V.29 Transmit	C54x	ILLICO
V.29 Transmit	C54x	MESi
V.29 Transmit/Receive	C54x	GAO Research Inc.



PROTOCOL STACKS

eXpressDSP™-Compliant Third-Party Algorithms

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Compliant Algorithm	Generation	Third-Party Vendor
HDLC Generator Level 2	C54x	Bayer DSP
HDLC Receiver	C55x	Bayer DSP
HDLC Receiver Level 2	C54x	Bayer DSP
HDLC Transmitter	C55x	Bayer DSP
Serial Communications Protocol	C54x	Windmill Innovations
Serial Communications Protocol	C55x	Windmill Innovations

Compliant Algorithm	Generation	Third-Party Vendor
Serial Communications Protocol	C67x	Windmill Innovations
TCP/IP Protocol Stack	C54x	Windmill Innovations
TCP/IP Protocol Stack for Ethernet	C62x	Windmill Innovations
TCP/IP Protocol Stack for Ethernet	C67x	Windmill Innovations
Treck	C54x	Treck
Treck	C62x	Treck



SECURITY

eXpressDSP™-Compliant Third-Party Algorithms

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Compliant Algorithm	Generation	Third-Party Vendor
3-DES	C54x	Ingenient Technologies
3-DES	C54x	Snapshield
3-DES	C55x	Ingenient Technologies
3-DES	C55x	Snapshield
AES	C54x	Snapshield
AES	C55x	Snapshield
AES	C62x	Snapshield
AES	C64x	Snapshield
Audio Watermark Det. SDMI Screen	C54x	Verance Corp.
BioKey	C62x	IdenCom
Biometrics Image Processing	C55x	Ethentica
DES	C54x	Ingenient Technologies
DES	C54x	Snapshield
DES	C55x	Ingenient Technologies
DES CBC Mode	C54x	Snapshield
Diffie-Hellman	C54x	Snapshield
Diffie-Hellman	C55x	Snapshield
Diffie-Hellman	C62x	Snapshield
ELGAMAL	C54x	Snapshield
ELGAMAL	C62x	Snapshield

Compliant Algorithm	Generation	Third-Party Vendor
Fingerprint 1 to 1	C54x	NeuroDynamics
Fingerprint Recognition Pre	C62x	IdentAlink
Fingerprint Recognition Engine	C62x	IdentAlink
HMAC	C54x	Ingenient Technologies
HMAC-MD5	C54x	Snapshield
HMAC-SHA-1	C54x	Snapshield
IDEA Decryption	C54x	easytools
IDEA Encryption	C54x	easytools
Kasumi Encryption	C67x	Pivot Signal Processing
MD5	C54x	Snapshield
MD5	C55x	Snapshield
MD5	C62x	Snapshield
MD5-V2.0	C62x	Snapshield
MMH-MAC	C62x	Snapshield
NTRU Mobile Security	C55x	NTRU Cryptosystems
RSA	C54x	Snapshield
RSA1024	C54x	eSecurium
SHA-1	C54x	Snapshield
SHA-1	C55x	Snapshield
SHA-1	C62x	Snapshield



SPEECH

eXpressDSP™-Compliant Third-Party Algorithms

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Compliant Algorithm	Generation	Third-Party Vendor
Adaptive Speech Filter (Enhancement)	C67x	NCT Group, Inc.
Broadband Noise Cancellation	C54x	Speech Technology Center
Caller ID Text-to-Speech	C55x	Fonix
Clear Voice Capture Dual-Element Mic	C54x	Clarity
Clear Voice Capture Single-Element Mic	C54x	Clarity
MPEG4 HVXC Speech Decoder	C54x	Ittiam Systems
MPEG4 HVXC Speech Encoder	C54x	Ittiam Systems
Real World Voice Recognition	C54x	NeuVoice
Real World Voice Recognition	C55x	NeuVoice
Referenced Noise Filter	C67x	NCT Group, Inc.
smARTspeak NG	C55x	Advanced Recognition Tech.
smARTspeak XG	C55x	Advanced Recognition Tech.

Compliant Algorithm	Generation	Third-Party Vendor
Sound Stretcher	C54x	Speech Technology Center
Speech Enhancement	C54x	SPIRIT CORP.
Text-to-Speech Synthesizer	C55x	Fonix
VoCon Speech Recognition Engine	C54x	Phillips Speech Processing
Voice Command Recognition	C54x	Speech Technology Center
Voiceguard – Adapt	C54x	Planning Systems, Inc.
Voiceguard – Adapt	C55x	Planning Systems, Inc.
Voiceguard – HAB	C54x	Planning Systems, Inc.
Voiceguard – HAB	C55x	Planning Systems, Inc.
VoiceTrigger	C54x	Wavemakers
Voice Recognition	C55x	Advanced Recognition Tech.



TELEPHONY

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Compliant Algorithm	Generation	Third-Party Vendor
2100-Hz Tone Detector	C62x	Signals + Software
Acoustic Echo Canceller	C54x	SPIRIT CORP.
Auto Gain Control/Voice Activity Det	C62x	RadiSys Corp.
Automatic Gain Control	C54x	Ingenient Technologies
Automatic Gain Control	C54x	SPIRIT CORP.
Automatic Gain Controller	C62x	Signals + Software
Automatic Gain Control	C64x	Ingenient Technologies
Call Progress Analysis	C54x	Commetrex
Call Progress Analysis	C62x	Commetrex
Call Progress Decoder	C54x	Ingenient Technologies
Call Progress Detector	C54x	SPIRIT CORP.
Call Progress Generator	C54x	SPIRIT CORP.
Call Progress Monitor	C62x	RadiSys Corp.
Call Progress Tone Detector	C54x	Adaptive Digital Technologies
Caller ID	C54x	Ingenient Technologies
Caller ID	C54x	SPIRIT CORP.
Caller ID Detector	C54x	MESi
Caller ID Detector	C54x	SPIRIT CORP.
Caller ID Generator	C54x	MESi
Caller ID Generator	C54x	SPIRIT CORP.
Caller ID Receiver	C62x	Commetrex
Caller ID Transmitter	C54x	Commetrex
Caller ID Transmitter	C62x	Commetrex
Caller ID, Type 1 and 2	C54x	GAO Research Inc.
Comfort Noise Generator	C54x	SPIRIT CORP.
Comfort Noise Generator	C62x	RadiSys Corp.
CPE Alert Signal	C54x	D2 Technologies
CPT Detector	C54x	Bayer DSP
CPT Detector	C55x	Bayer DSP
CPT Generator	C54x	Bayer DSP
CPT Generator	C55x	Bayer DSP
DTMF	C54x	D2 Technologies
DTMF	C54x	SPIRIT CORP.
DTMF	C62x	Spectrum Signal Processing
DTMF Detector	C54x	Adaptive Digital Technologies
DTMF Detector	C54x	Commetrex
DTMF Detector	C54x	Ingenient Technologies
DTMF Detector	C54x	MESi
DTMF Detector	C62x	Commetrex
DTMF Detector / Suppressor	C62x	RadiSys Corp.
DTMF Encoder	C54x	Ingenient Technologies
DTMF Encoder/Decoder	C54x	Ingenient Technologies
DTMF Generator	C54x	Commetrex
DTMF Generator	C54x	MESi

Compliant Algorithm	Generation	Third-Party Vendor
DTMF Generator	C54x	SPIRIT CORP.
DTMF Generator	C62x	Commetrex
DTMF Receiver	C54x	Bayer DSP
DTMF Receiver	C54x	Signals + Software
DTMF Receiver	C54x	SIAL
DTMF Receiver	C54x	SPIRIT CORP.
DTMF Receiver	C55x	Bayer DSP
DTMF Receiver	C62x	Motorola Computer Group
DTMF Transmitter	C54x	Bayer DSP
DTMF Transmitter	C54x	Signals + Software
DTMF Transmitter	C55x	Bayer DSP
DTMF Transmitter	C62x	Motorola Computer Group
DTMF Transmitter	C62x	Signals + Software
Echo Cancellation, Multi-	C54x	D2 Technologies
Echo Canceller	C54x	Ingenient Technologies
Echo Canceller	C55x	Ingenient Technologies
Echo Canceller	C62x	Ingenient Technologies
Echo Canceller	C64x	Ingenient Technologies
Fax and Modem Tone Detect	C54x	D2 Technologies
Frequency Shift Key Rec	C54x	D2 Technologies
Frequency Shift Key Send	C54x	D2 Technologies
G.165	C54x	Bayer DSP
G.165	C54x	SPIRIT CORP.
G.165	C55x	Bayer DSP
G.165	C55x	SPIRIT CORP.
G.165 Line Echo Cancellation	C62x	RadiSys Corp.
G.167	C54x	Bayer DSP
G.167	C55x	Bayer DSP
G.168	C54x	DACS Software
G.168	C54x	Ingenient Technologies
G.168	C55x	Ingenient Technologies
G.168	C62x	Ingenient Technologies
G.168	C64x	Ingenient Technologies
G.168 (Long Tail)	C54x	Adaptive Digital Technologies
G.168 (Long Tail)	C55x	Adaptive Digital Technologies
G.168 (Long Tail)	C64x	Adaptive Digital Technologies
G.168 (Short Tail)	C54x	Adaptive Digital Technologies
G.168 (Short Tail)	C55x	Adaptive Digital Technologies
G.168-2000	C54x	SPIRIT CORP.
G.168-2000	C55x	SPIRIT CORP.
LEC-128-HelloVoice™ Line Echo	C55x	HelloSoft
Line Echo Canceller	C55x	HelloSoft
Line Echo Canceller	C67x	Electronic Design Associates
MF R1 Detector	C54x	Adaptive Digital Technologies



TELEPHONY

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Compliant Algorithm	Generation	Third-Party Vendor
MF R2 Forward Detector	C54x	Adaptive Digital Technologies
MF R2 Reverse Detector	C54x	Adaptive Digital Technologies
MF Line/Register Signaling	C62x	RadiSys Corp.
Multifrequency Tone Detect	C54x	D2 Technologies
Music On Hold	C54x	Bayer DSP
Noise Floor Estimation	C54x	D2 Technologies
Non-Linear Processing	C54x	D2 Technologies
SoundClear Echo Cancel & Noise Red	C54x	Acoustic Technologies
SoundClear Echo Cancel & Noise Red	C55x	Acoustic Technologies
TMWRTW	C67x	Ingenient Technologies
Tone Detector	C54x	Commetrex
Tone Detector	C54x	MESi
Tone Detector	C62x	Commetrex
Tone Detector	C64x	Commetrex
Tone Disabler for LEC	C54x	SPIRIT CORP.
Tone Generator	C54x	Commetrex
Tone Generator	C54x	D2 Technologies

Compliant Algorithm	Generation	Third-Party Vendor
Tone Generator	C54x	MESi
Tone Generator	C62x	Commetrex
Tone Generator	C62x	RadiSys Corp.
Universal Tone Detection	C54x	D2 Technologies
Univ Multifrequency Tone Generator	C54x	SPIRIT CORP.
Univ Multifrequency Tone Generator	C55x	SPIRIT CORP.
Variable Rate Convl. CODEC w/ Soft Decision VITERBI Decoding	C54x	Ingenient Technologies
Voice Activity Detector	C62x	RadiSys Corp.
Voice Activity Detection	C54x	Ingenient Technologies
Voice Activity Detection	C54x	SPIRIT CORP.
Voice Activity Detection	C55x	Ingenient Technologies
Voice Activity Detection	C62x	Ingenient Technologies
Voice Activity Detection	C64x	Ingenient Technologies
Voice Activity Detector	C54x	D2 Technologies
Voice Activity Detector	C62x	Signals + Software



VB MODEMS

eXpressDSP™-Compliant Third-Party Algorithms

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Compliant Algorithm	Generation	Third-Party Vendor
AGC	C54x	Ingenient Technologies
AGC	C54x	SPIRIT CORP.
BELL 103 Modem (demod)	C54x	MESi
BELL 103 Modem (mod)	C54x	MESi
BELL 202 Modem (demod)	C54x	MESi
BELL 202 Modem (mod)	C54x	MESi
Binary Phase Shift Key Modem	C54x	Ingenient Technologies
Binary Phase Shift Key Modem	C64x	Ingenient Technologies
DTMF Generator	C54x	Ingenient Technologies
G3MDP	C54x	SPIRIT CORP.
Soft Modem (Medium speed)	C54x	Netbricks
UPD Fax/Modem Pumps	C55x	SPIRIT CORP.
UPD Modem Pumps	C55x	SPIRIT CORP.
UDP V.23 Fax/Modem Pumps	C55x	SPIRIT CORP.
Univ Multifrequency Tone Detect	C54x	SPIRIT CORP.
Univ Multifrequency Tone Detect	C55x	SPIRIT CORP.
V.21 Receive	C54x	ILLICO
V.21 Transmit/Receive	C54x	GAO Research Inc.
V.22	C54x	Ingenient Technologies
V.22 bis Transmit/Receive	C54x	GAO Research Inc.

Compliant Algorithm	Generation	Third-Party Vendor
V.22 bis Transmit/Receive	C54x	MESi
V.23 Receive	C54x	MESi
V.23 Transmit	C54x	MESi
V.23 Transmit/Receive	C54x	GAO Research Inc.
V.32 / V.32 bis / V.22 / V.22 bis	C54x	SPIRIT CORP.
V.32 bis	C54x	GAO Research Inc.
V.32 bis	C54x	MESi
V.32 bis	C54x	SPIRIT CORP.
V.32 Transmit/Receive	C54x	ILLICO
V.34 Data Pump	C54x	GAO Research Inc.
V.34/V.34+	C62x	SURF Communication Solns.
V.42	C54x	SPIRIT CORP.
V.42 bis	C54x	GAO Research Inc.
V.42 bis	C54x	SPIRIT CORP.
V.42 bis Decoder	C62x	Signals + Software
V.42 bis Encoder	C62x	Signals + Software
V.90	C62x	SURF Communication Solns.
V.90 Data Pump	C54x	GAO Research Inc.
V.150	C64x	SURF Communication Solns.



VIDEO & IMAGING

eXpressDSP™-Compliant Third-Party Algorithms

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Compliant Algorithm	Generation	Third-Party Vendor
Digital Video-25	DM64x	Mecoso Technology
H.261 Decoder	C62x	UB Video
H.261 Encoder	C62x	UB Video
H.263 Decoder	C62x	Dilithium Networks
H.263 Decoder	C62x	Mecoso Technology
H.263 Decoder Ver 1.0	C62x	UB Video
H.263 Decoder Ver 2.0	C62x	UB Video
H.263 Encoder	C55x	Emuzed
H.263 Encoder	C62x	Emuzed
H.263 Encoder	C62x	Mecoso Technology
H.263 Encoder	C64x	Emuzed
H.263 Encoder Ver 1.0	C62x	UB Video
H.263 Encoder Ver 2.0	C62x	UB Video
H.263 TDM to/from H.263 TCP/IP	C62x	Dilithium Networks
JPEG Codec	C54x	ATEME
JPEG Codec	C55x	ATEME
JPEG Codec	C62x	ATEME
JPEG Codec	DM64x	Mecoso Technology
JPEG Decoder	C54x	ATEME
JPEG Decoder	C55x	ATEME
JPEG Decoder	C55x	Emuzed
JPEG Decoder	C62x	ATEME
JPEG Decoder	C64x	ATEME
JPEG Encoder	C54x	ATEME
JPEG Encoder	C55x	ATEME
JPEG Encoder	C55x	Emuzed
JPEG Encoder	C62x	ATEME
JPEG Encoder	C62x	Mango DSP
JPEG Encoder	C64x	ATEME
MJPEG Codec	C54x	ATEME
MJPEG Codec	C55x	ATEME
MJPEG Codec	C62x	ATEME
MJPEG Codec	DM64x	Mecoso Technology
MJPEG Decoder	C54x	ATEME
MJPEG Decoder	C55x	ATEME
MJPEG Decoder	C62x	ATEME
MJPEG Encoder	C54x	ATEME
MJPEG Encoder	C55x	ATEME

Compliant Algorithm	Generation	Third-Party Vendor
MJPEG Encoder	C62x	ATEME
MPEG1 Decoder	C62x	Mecoso Technology
MPEG1 Encoder	C62x	Mecoso Technology
MPEG2 Decoder	C62x	ATEME
MPEG2 Decoder	C64x	ATEME
MPEG4 Adv. Simple Profile Decoder	C62x	Ingenient Technologies
MPEG4 Adv. Simple Profile Encoder	C62x	Ingenient Technologies
MPEG4 Adv. Simple Profile Encoder	C64x	Prodys
MPEG4 ASP Level 4 Encoder	C64x	Prodys
MPEG4 Core Profile Encoder	C64x	Prodys
MPEG4 Decoder	C55x	Sasken Communication Tech.
MPEG4 Decoder	C55x	UB Video
MPEG4 Decoder	C62x	ATEME
MPEG4 Decoder	C62x	Dilithium Networks
MPEG4 Decoder	C62x	Mecoso Technology
MPEG4 Decoder	C64x	ATEME
MPEG4 Encoder	C55x	UB Video
MPEG4 Encoder	C62x	Mecoso Technology
MPEG4 Encoder	C64x	Prodys
MPEG4 Simple Profile	C64x	Ittiam Systems
MPEG4 Simple Profile Decoder	C62x	Ingenient Technologies
MPEG4 Simple Profile Decoder	C62x	Prodys
MPEG4 Simple Profile Decoder	C64x	Ingenient Technologies
MPEG4 Simple Profile Decoder	C64x	Prodys
MPEG4 Simple Profile Encoder	C62x	Ingenient Technologies
MPEG4 Simple Profile Encoder	C62x	Prodys
MPEG4 Simple Profile Encoder	C64x	Ingenient Technologies
MPEG4 Simple Profile Encoder	C62x	Prodys
MPEG4 Simple Profile Video Decoder	C55x	Emuzed
MPEG4 Simple Profile Video Decoder	C62x	Prodys
MPEG4 Simple Profile Video Decoder	C64x	Prodys
MPEG4 Simple Profile Video Encoder	C55x	Emuzed
MPEG4 Simple Profile Video Encoder	C62x	Emuzed
MPEG4 Simple Profile Video Encoder	C64x	Emuzed
MPEG4 VSP Decoder	C64x	ATEME
VP4 Decoder	C62x	On2 Technologies
VP4 Decoder	C64x	On2 Technologies



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Compliant Algorithm	Generation	Third-Party Vendor	Compliant Algorithm	Generation	Third-Party Vendor
1200-BPS Decoder	C54x	SPIRIT CORP.	G.722 Decoder	C64x	Ittiam Systems
1200-BPS Encoder	C54x	SPIRIT CORP.	G.722 Encoder	C62x	RadiSys Corp.
1200-BPS Vocoder	C55x	SPIRIT CORP.	G.722 Encoder	C62x	Signals + Software
2400-BPS Decoder	C54x	SPIRIT CORP.	G.722 Encoder	C64x	Ittiam Systems
2400-BPS Encoder	C54x	SPIRIT CORP.	G.722.1 Decoder	C54x	SIAL
2400-BPS Vocoder	C55x	SPIRIT CORP.	G.722.1 Decoder	C64x	Ittiam Systems
4800-BPS Vocoder	C54x	SPIRIT CORP.	G.722.1 Encoder	C54x	SIAL
4800-BPS Vocoder	C55x	SPIRIT CORP.	G.722.1 Encoder	C64x	Ittiam Systems
6000-BPS Vocoder	C54x	SPIRIT CORP.	G.722.2 Decoder	C62x	Pivot Signal Processing
6000-BPS Vocoder	C55x	SPIRIT CORP.	G.723.1	C54x	Encore Software
Enhanced G.711	C54x	Global IP Sound AB	G.723.1	C54x	GAO Research Inc.
ESAC4 Decoder	C55x	Cybernetics Infotech	G.723.1	C62x	Encore Software
ESAC4 Encoder	C55x	Cybernetics Infotech	G.723.1 Decoder	C54x	SPIRIT CORP.
ESAC7 Decoder	C55x	Cybernetics Infotech	G.723.1 Decoder	C55x	SPIRIT CORP.
ESAC7 Encoder	C55x	Cybernetics Infotech	G.723.1 Decoder	C62x	RadiSys Corp.
G.168	C62x	Signals + Software	G.723.1 Decoder	C62x	Signals + Software
G.711 Decoder	C54x	Commetrex	G.723.1 Decoder	C62x	SPIRIT CORP.
G.711 Decoder	C54x	Ingenient Technologies	G.723.1 Encoder	C54x	SPIRIT CORP.
G.711 Decoder	C54x	Signals + Software	G.723.1 Encoder	C55x	SPIRIT CORP.
G.711 Decoder	C54x	SPIRIT CORP.	G.723.1 Encoder	C62x	RadiSys Corp.
G.711 Decoder	C55x	Ingenient Technologies	G.723.1 Encoder	C62x	Signals + Software
G.711 Decoder	C55x	SPIRIT CORP.	G.723.1 Encoder	C62x	SPIRIT CORP.
G.711 Decoder	C62x	Commetrex	G.723.1 Encoder/Decoder	C54x	Adaptive Digital Technologies
G.711 Decoder	C62x	Ingenient Technologies	G.723.1 Encoder/Decoder	C54x	GAO Research Inc.
G.711 Decoder	C62x	Motorola Computer Group	G.723A Decoder	C54x	D2 Technologies
G.711 Decoder	C62x	RadiSys Corp.	G.723A Encoder	C54x	D2 Technologies
G.711 Decoder	C62x	Signals + Software	G.726	C54x	Encore Software
G.711 Decoder	C64x	Ittiam Systems	G.726	C62x	Encore Software
G.711 Encoder	C54x	Commetrex	G.726 A-Law ADPCM Decoder	C62x	RadiSys Corp.
G.711 Encoder	C54x	Ingenient Technologies	G.726 A-Law ADPCM Encoder	C62x	RadiSys Corp.
G.711 Encoder	C54x	Signals + Software	G.726 ADPCM Decoder/Encoder	C54x	SPIRIT CORP.
G.711 Encoder	C54x	SPIRIT CORP.	G.726 ADPCM Decoder/Encoder	C55x	SPIRIT CORP.
G.711 Encoder	C55x	Ingenient Technologies	G.726 Decoder	C54x	Commetrex
G.711 Encoder	C55x	SPIRIT CORP.	G.726 Decoder	C54x	D2 Technologies
G.711 Encoder	C62x	Commetrex	G.726 Decoder	C54x	National Instr./Hyperception
G.711 Encoder	C62x	Ingenient Technologies	G.726 Decoder	C54x	Ingenient Technologies
G.711 Encoder	C62x	Motorola Computer Group	G.726 Decoder	C54x	Signals + Software
G.711 Encoder	C62x	RadiSys Corp.	G.726 Decoder	C54x	SPIRIT CORP.
G.711 Encoder	C62x	Signals + Software	G.726 Decoder	C55x	DSP Wizard
G.711 Encoder	C64x	Ittiam Systems	G.726 Decoder	C55x	SPIRIT CORP.
G.711 PLC	C54x	SPIRIT CORP.	G.726 Decoder	C62x	Commetrex
G.711 PLC	C55x	SPIRIT CORP.	G.726 Decoder	C62x	National Instr./Hyperception
G.722 Decoder	C62x	RadiSys Corp.	G.726 Decoder	C62x	Ingenient Technologies
G.722 Decoder	C62x	Signals + Software	G.726 Decoder	C62x	Ingenient Technologies



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G.726 Decoder	C62x	Signals + Software
G.726 Decoder	C64x	Ittiam Systems
G.726 Decoder (Low MIPS)	C54x	Adaptive Digital Technologies
G.726 Encoder	C54x	Commetrex
G.726 Encoder	C54x	D2 Technologies
G.726 Encoder	C54x	National Instru./Hyperception
G.726 Encoder	C54x	Ingenient Technologies
G.726 Encoder	C54x	Signals + Software
G.726 Encoder	C54x	SPIRIT CORP.
G.726 Encoder	C55x	DSP Wizard
G.726 Encoder	C55x	SPIRIT CORP.
G.726 Encoder	C62x	Commetrex
G.726 Encoder	C62x	National Instru./Hyperception
G.726 Encoder	C62x	Ingenient Technologies
G.726 Encoder	C62x	Ingenient Technologies
G.726 Encoder	C62x	Signals + Software
G.726 Encoder	C64x	Ittiam Systems
G.726 Encoder (Low MIPS)	C54x	Adaptive Digital Technologies
G.726 Encoder/Decoder (Low Memory)	C54x	Adaptive Digital Technologies
G.726 U-Law ADPCM Decoder	C62x	RadiSys Corp.
G.726 U-Law ADPCM Encoder	C62x	RadiSys Corp.
G.726/G.711	C55x	SPIRIT CORP.
G.728	C62x	Encore Software
G.728 Decoder	C54x	Signals + Software
G.728 Decoder	C62x	Signals + Software
G.728 Decoder	C64x	Ittiam Systems
G.728 Encoder	C54x	Signals + Software
G.728 Encoder	C62x	Signals + Software
G.728 Encoder	C64x	Ittiam Systems
C.729	C55x	Wipro
G.729	C62x	Encore Software
G.729 Decoder	C54x	Signals + Software
G.729 Decoder	C54x	SPIRIT CORP.
G.729 Decoder	C55x	DSP Wizard
G.729 Decoder	C55x	SPIRIT CORP.
G.729 Decoder	C62x	RadiSys Corp.
G.729 Decoder	C62x	Signals + Software
G.729 Decoder	C62x	SIAL
G.729 Decoder	C62x	SURF Communication Solns.
G.729 Encoder	C54x	Signals + Software
G.729 Encoder	C54x	SPIRIT CORP.
G.729 Encoder	C55x	DSP Wizard
G.729 Encoder	C55x	SPIRIT CORP.
G.729 Encoder	C62x	RadiSys Corp.
G.729 Encoder	C62x	Signals + Software
G.729 Encoder	C62x	SIAL
G.729 Encoder	C62x	SURF Communication Solns.
G.729 Encoder	C54x	Signals + Software
G.729 Encoder	C54x	SPIRIT CORP.
G.729 Encoder	C55x	DSP Wizard
G.729 Encoder	C55x	SPIRIT CORP.
G.729 Encoder	C62x	RadiSys Corp.

Compliant Algorithm	Generation	Third-Party Vendor
G.729 Encoder	C62x	Signals + Software
G.729 Encoder	C62x	SIAL
G.729 Encoder	C62x	SURF Communication Solns.
G.729 Encoder/Decoder	C54x	Adaptive Digital Technologies
G.729A	C54x	Encore Software
G.729A Decoder	C54x	D2 Technologies
G.729A Decoder	C54x	Signals + Software
G.729A Decoder	C55x	DSP Wizard
G.729A Decoder	C62x	RadiSys Corp.
G.729A Decoder	C62x	Signals + Software
G.729A Encoder	C54x	Signals + Software
G.729A Encoder	C55x	DSP Wizard
G.729A Encoder	C62x	RadiSys Corp.
G.729A Encoder	C62x	Signals + Software
G.729A Encoder/Decoder	C54x	Adaptive Digital Technologies
G.729A Encoder/Decoder	C54x	GAO Research Inc.
G.729AB	C62x	CuTe Solution
G.729AB Decoder	C54x	D2 Technologies
G.729AB Decoder	C54x	HelloSoft
G.729AB Decoder	C54x	Signals + Software
G.729AB Decoder	C55x	DSP Wizard
G.729AB Decoder	C55x	HelloSoft
G.729AB Decoder	C62x	RadiSys Corp.
G.729AB Decoder	C62x	Signals + Software
G.729AB Encoder	C54x	D2 Technologies
G.729AB Encoder	C54x	HelloSoft
G.729AB Encoder	C54x	Signals + Software
G.729AB Encoder	C55x	DSP Wizard
G.729AB Encoder	C55x	HelloSoft
G.729AB Encoder	C62x	RadiSys Corp.
G.729AB Encoder	C62x	Signals + Software
G.729AB Encoder/Decoder	C54x	Adaptive Digital Technologies
G.729AB Encoder/Decoder	C54x	SPIRIT CORP.
G.729AB Encoder/Decoder	C55x	SPIRIT CORP.
G.729B Decoder	C54x	D2 Technologies
G.729B Decoder	C54x	Signals + Software
G.729B Decoder	C55x	DSP Wizard
G.729B Decoder	C62x	Signals + Software
G.729E Encoder	C54x	D2 Technologies
G.729B Encoder	C54x	Signals + Software
G.729B Encoder	C55x	DSP Wizard
G.729B Encoder	C62x	Signals + Software
G.729B Encoder/Decoder	C54x	Adaptive Digital Technologies
G.729E Decoder	C54x	D2 Technologies



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Compliant Algorithm	Generation	Third-Party Vendor
G.729E Encoder	C54x	D2 Technologies
G723.1 Decoder	C62x	SURF Communication Solns.
G723.1 Encoder	C62x	SURF Communication Solns.
IPCM Wideband	C54x	Global IP Sound AB

Compliant Algorithm	Generation	Third-Party Vendor
Voice Activity Detector	C54x	Ingenient Technologies
Voice Activity Detector	C62x	Ingenient Technologies
Voice Activity Detector	C64x	Ingenient Technologies



WIRELESS

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Compliant Algorithm	Generation	Third-Party Vendor
G.723.1/GSM-AMR Transcoder	C62x	Dilithium Networks
GSM AMR Decoder	C55x	HelloSoft
GSM AMR Decoder	C55x	Emuzed
GSM AMR Encoder	C55x	Emuzed
GSM AMR Encoder	C55x	HelloSoft
GSM-AMR/G.723.1 Transcoder	C62x	Dilithium Networks
GSM AMR Wideband Decoder	C55x	Emuzed
GSM AMR Wideband Encoder	C55x	Emuzed
GSM Enhanced Full-Rate Decoder	C54x	SIAL

Compliant Algorithm	Generation	Third-Party Vendor
GSM Enhanced Full-Rate Decoder	C62x	Signals + Software
GSM Enhanced Full-Rate Encoder	C54x	SIAL
GSM Enhanced Full-Rate Encoder	C62x	Signals + Software
GSM Full-Rate Decoder	C54x	Bayer DSP
GSM Full-Rate Decoder	C55x	Bayer DSP
GSM Full-Rate Decoder	C62x	Signals + Software
GSM Full-Rate Encoder	C54x	Bayer DSP
GSM Full-Rate Encoder	C55x	Bayer DSP
GSM Full-Rate Encoder	C62x	Signals + Software