



TELEPHONY

eXpressDSP™-Compliant Third-Party Algorithms

Updated May 2004

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



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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



Complete Listing of eXpressDSP™-Compliant Third-Party Algorithms

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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