

## Decoderlist V 23.1

for go2MONITOR, go2MONITOR LOW-SWAP and go2DECODE

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### EXPORT

\* Set of PMR and SAT demodulators and decoders: In case of export from the European Union, formal export approval is necessary and an End-User Certificate is required to be submitted. If the final destination and end-use is within a country listed in the general approval EU001 of the European Union in its current version, an informal written notice, sent to PROCITEC, is sufficient.

\*\* Set of military demodulators and decoders: In case of export from the Federal Republic of Germany, formal export approval is necessary and an End-User Certificate is required to be submitted.

### INFORMATION

- Only one decoder will be delivered for modems with several (alias) names. white line = primary modem name; grey line = alias name
- Src\* = availability of decoder source code depends on product
- This list contains decoders for signals that may be perceived as no longer "on-air". PROCITEC continues to deliver these decoders due to limited but continuing use of these emission-types by unorthodox user-groups.

## Standard Decoder Package

### HF decoders

Modem	Same as	Remarks	Modem File	Src*
2 channel ITA-2 RTTY	F7W Morse/Baudot			X
ACARS HF	HFDL			X
Alcatel 801H		detection only	alcatel_801h	X
ALE 2G		Page 02	ale-2g	X
ALE-400			ale-400	X
ALIS		Page 11	alis	X
ALIS 2			alis2	X
AMOR	CIS-14			X
AMOR 96	CIS-14	Page 13		X
AMTOR	SITOR-A			X
Annex-10	SELCAL ICAO	Page 14		X
ARQ-1000 duplex	ARQ-E/ARQ-N			X
ARQ-28	ARQ-M2 242/ARQ-M4 242			X
ARQ-56	ARQ-M2-342/ARQ-M4-342	Page 15		X
ARQ6-90			arq_6-90	X
ARQ6-98			arq_6-98	X
ARQ-E Cyc4			arq_e_cyc4_85bd_170hz	X
ARQ-E Cyc8 185Bd 370Hz			arq_e_cyc8_185bd_370hz	X
ARQ-E Cyc8 96Bd 192Hz			arq_e_cyc8_96bd_192hz	X
ARQ-E3 50Bd 400Hz			arq_e3_50bd_400hz	X
ARQ-E3 100Bd 400Hz			arq_e3_100bd_400hz	X
ARQ-E3 48Bd 170Hz			arq_e3_cyc8_48bd_170hz	X
ARQ-E3 48Bd 270Hz			arq_e3_cyc8_48bd_270hz	X
ARQ-E3 48Bd 300Hz			arq_e3_cyc8_48bd_300hz	X
ARQ-E3 48Bd 400Hz			arq_e3_cyc8_48bd_400hz	X
ARQ-E3 48Bd 850Hz			arq_e3_cyc8_48bd_850hz	X
ARQ-E3 72Bd 400Hz			arq_e3_cyc8_72bd_400hz	X
ARQ-E3 96Bd 170Hz			arq_e3_cyc8_96bd_170hz	X
ARQ-E3 100Bd 850Hz			arq_e3_cyc8_100bd_850hz	X
ARQ-E3 192Bd 400Hz			arq_e3_cyc8_192bd_400hz	X
ARQ-E3 200Bd 400Hz			arq_e3_cyc8_200bd_400hz	X
ARQ-E3 288Bd 400Hz			arq_e3_cyc8_288bd_400hz	X
ARQ-E3 288Bd 850Hz			arq_e3_cyc8_288bd_850hz	X
ARQ-M1	ARQ-E3			X
ARQ-M2-242			arq_m2_242_96bd_430hz	X
ARQ-M2-342 96Bd 400Hz			arq_m2_342_96bd_400hz	X

## Standard Decoder Package

### HF decoders

Modem	Same as	Remarks	Modem File	Src*
ARQ-M2-342 200Bd 410Hz			arq_m2_342_200bd_410hz	X
ARQ-M4-242			arq_m4_242_192bd_173hz	X
ARQ-M4-342			arq_m4_342_192bd_400hz	X
ARQ-N			arq_n	X
ARQ-S	SI-ARQ			X
ARQ-SWE	SWED-ARQ			X
ARTRAC	DUP-ARQ			X
ASCII 7Bit 100Bd 173Hz			ascii_7bit_100bd_173hz	X
ASCII 7Bit 75Bd 850Hz			ascii_7bit_75bd_850hz	X
ASCII 7Bit 110Bd 170Hz			ascii_7bit_110bd_170hz	X
ASCII 7Bit 171Bd 420Hz			ascii_7bit_171bd_420hz	X
ASCII 7Bit 180Bd 500Hz			ascii_7bit_180bd_500hz	X
ASCII 7Bit 200Bd 300Hz			ascii_7bit_200bd_300hz	X
ASCII 7Bit 200Bd 400Hz			ascii_7bit_200bd_400hz	X
ASCII 7Bit 300Bd 170Hz			ascii_7bit_300bd_170hz	X
ASCII 7Bit 300Bd 400Hz			ascii_7bit_300bd_400hz	X
ASCII 7Bit 600Bd 480Hz			ascii_7bit_600bd_480hz	X
ASCII 8-1-1 300Bd 180Hz			ascii_8-1-1_300bd_180hz	X
ASCII 8-1-2 180Bd 500Hz			ascii_8-1-2_180bd_500hz	X
AUTOSPEC			autospec	X
Baudot sync 200Bd 850Hz			baudot_sync_200bd_850hz	X
Baudot sync 2 stopbit 50Bd 450Hz			baudot_2stopbit_50bd_450hz	X
Baudot sync 2 stopbit 75Bd 500Hz			baudot_2stopbit_75bd_500hz	X
Baudot async 1.5 Stopbit 50Bd 450Hz			baudot_async_50bd_450hz	X
Baudot async 1.5 Stopbit 50Bd 170Hz			baudot_async_50bd_170hz	X
Baudot async 1.5 Stopbit 50Bd 200Hz			baudot_async_50bd_200hz	X
Baudot async 1.5 Stopbit 50Bd 850Hz			baudot_async_50bd_850hz	X
Baudot async 1.5 Stopbit 75Bd 340Hz			baudot_async_75bd_340hz	X
Baudot async 1.5 Stopbit 75Bd 400Hz			baudot_async_75bd_400hz	X
Baudot async 1.5 Stopbit 75Bd 500Hz			baudot_async_75bd_500hz	X
Baudot async 1.5 Stopbit 100Bd 200Hz			baudot_async_100bd_200hz	X
Baudot async 1.5 Stopbit 100Bd 400Hz			baudot_async_100bd_400hz	X
Baudot async 1.5 Stopbit 100Bd 850Hz			baudot_async_100bd_850hz	X
Baudot async 1.5 Stopbit 150Bd 500Hz			baudot_async_150bd_500hz	X
Baudot async 1.5 Stopbit 180Bd 500Hz			baudot_async_180bd_500hz	X
Baudot universal 50Bd 650Hz			baudot_universal_50bd_650hz	X

## Standard Decoder Package

### HF decoders

Modem	Same as	Remarks	Modem File	Src*
Baudot universal 75Bd 850Hz			baudot_universal_75bd_850hz	X
Baudot F7B	TWINPLEX			X
BEE	CIS-36-50			X
BELL 103	ASCII 8-1-1 300Bd 180Hz			X
BF6 Baudot	TWINPLEX			X
BULG-ASCII 75Bd 510Hz			bulg-ascii_75bd_510hz	X
BULG-ASCII 120Bd 500Hz			bulg-ascii_120bd_500hz	X
BULG-ASCII 150Bd 500Hz			bulg-ascii_150bd_500hz	X
BULG-ASCII 180Bd 500Hz			bulg-ascii_180bd_500hz	X
BULG-ASCII 300Bd 500Hz			bulg-ascii_300bd_500hz	X
CCIR 242	ARQ-M2 242/ARQ-M4 242			X
CCIR 342	ARQ-M2 242			X
CCIR 342-2	ARQ-M4 242			X
CCIR 476 A/B	Sitor A/Sitor B			X
CCIR 493-4	CODAN Selcal			-
CCIR 518 Variant	SWED-ARQ/ARQ6-90/ARQ6-98/POL-ARQ			X
CCIR 519 Variant	ARQ-E3			X
CHN MIL 4FSK 400Hz		detection only	chn_mil_4fsk_400	X
CHN MIL 4FSK 500Hz		detection only	chn_mil_4fsk_500	X
CHN MIL Hybrid 8FSK-PSK			chn_mfsk8_psk2400	-
CHU			chu_fsk	X
CHX-200		detection only	chx-200	X
CIS 10 11 11	CIS 36			X
CIS-11			cis-11	X
CIS-12 PSK2			cis-12_psk2	X
CIS-12 PSK4A			cis-12_psk4a	X
CIS-12 PSK4B			cis-12_psk4b	X
CIS-14			cis-14	X
CIS-20	CIS-12			X
CIS-3000		detection only	cis-3000	X
CIS-36			cis-36	X
CIS-36-50 50Bd 250Hz			cis-36_50_50bd_250hz	X
CIS-36-50 50Bd 500Hz			cis-36_50_50bd_500hz	X
CIS-50-50 50Bd 200Hz			cis-50_50_50bd_200hz	X
CIS 40.5	CIS 405 3915			X
CIS 405 3915			cis_405_3915	X

## Standard Decoder Package

### HF decoders

Modem	Same as	Remarks	Modem File	Src*
CIS 81	CIS 81-81			X
CIS 81-29	CIS 81-81			X
CIS-81-81			cis-81-81_81bd_500hz	X
CIS Akula 500Bd/1000Hz			cis-akula_500bd_1000hz	X
CIS AT3104	CIS-12			X
CIS FSK 200/500			cis-fsk-200-500	X
CIS FSK 200/1000			cis-fsk-200-1000	X
CIS Hybrid MFSK-68 PSK-9000		no automatic recognition	cis-mfsk68_psk9000	-
CIS Hybrid MFSK-80 PSK-250		no automatic recognition	cis-80_250	-
CIS-45 OFDM 33.3Bd		detection only	cis-45-ofdm-33bd	X
CIS-45 OFDM 40Bd		detection only	cis-45-ofdm-40bd	X
CIS-112 OFDM Burst		detection only	cis-112-ofdm-burst	X
CIS-112 OFDM Stream		detection only	cis-112-ofdm-stream	X
CIS-128 OFDM 3kHz		detection only	cis-128-ofdm-3khz	X
CIS-128 OFDM 6kHz		detection only	cis-128-ofdm-6khz	X
Clansman FSK 300Bd			clansman_300bd	X
Clover II			clover_II	-
Clover 2000			clover_2000	-
Clover 2000 Broadcast			clover_2000broadcast	-
Clover 2500			clover_2500	-
Clover 2500 Broadcast			clover_2500broadcast	-
CODAN 3012 Chirp			codanchirp	-
CODAN Selcal			codan_selcall	-
CODAN 3012 16 Channel PSK		raw hex output descrambled		-
CODAN 3212 16 Channel PSK		Includes CODAN 3012	codan3212_16channel_psk	-
CODAN 3212 1 Channel		150, 300, 600 and 1200 bps	codan3212_1channel_psk	-
CODAN 3212 1 Channel HDR		2400, 3600, 4800, 6000 and 7200 bps	codan3212_1channel_psk_hdr	-
CODAN 3212 1 Channel 75bps		75bps	codan3212_1channel_psk_75bps	-
CODAN 8580	CODAN Selcal			-
CODAN 9001 Chirp	CODAN 3012 Chirp			-
Contestia 8/250			contestia-8-250	X
Contestia 16/500			contestia-16-500	X
Contestia 32/1000			contestia-32-1000	X
CROWD-36	CIS-36			X
Coquelet-13 75ms			coquelet-13_75ms	X
Coquelet-13 50ms			coquelet-13_50ms	X

## Standard Decoder Package

### HF decoders

Modem	Same as	Remarks	Modem File	Src*
Coquelet-8			coquelet-8	X
Coquelet-8 FEC	Coquelet-80			X
Coquelet-80			coquelet-80	X
Coquelet-100	Alcatel 801H			X
Coquelet-Mk1	Coquelet-13			X
Coquelet-Mk2	Coquelet-8			X
CW-Morse	Morse			X
DominoEX 4		only for nominal frequency mode	domino_ex_4	X
DominoEX 5		only for nominal frequency mode	domino_ex_5	X
DominoEX 8		only for nominal frequency mode	domino_ex_8	X
DominoEX 11		only for nominal frequency mode	domino_ex_11	X
DominoEX 16		only for nominal frequency mode	domino_ex_16	X
DominoEX 22		only for nominal frequency mode	domino_ex_22	X
DGPS 200Bd			dgps_200bd_msk	X
DGPS 100Bd			dgps_100bd_msk	X
DPRK PSK 150Bd		detection only	dprk_psk_150bd	X
DPRK PSK 300Bd		detection only	dprk_psk_300bd	X
DPRK PSK 600Bd		detection only	dprk_psk_600bd	X
DPRK PSK 1200Bd		detection only	dprk_psk_1200bd	X
DSC-HF 170Hz			dsc-hf-170hz	X
DSC-HF 500Hz			dsc-hf-500hz	X
DUP-ARQ 125Bd 170Hz			dup-arq_125bd_170hz	X
DUP-ARQ 250Bd 850Hz			dup-arq_250bd_850hz	X
DUP-ARQ-2	DUP-ARQ 250Bd 850Hz			X
DUP-FEC-2 125Bd			dup-fec-2_125bd	X
DUP-FEC-2 250Bd			dup-fec-2_250bd	X
F7B Morse	F7W Morse/Baudot			X
F7W Morse/Baudot			f7w_baudot_morse	X
FEC-A 145Bd 850Hz			fec-a_145bd_850hz	X
FEC-A 96Bd 85Hz			fec-a_96bd_85hz	X
FEC-A 96Bd 200Hz			fec-a_96bd_200hz	X
FEC-A 96Bd 400Hz			fec-a_96bd_400hz	X
FEC-A 192Bd 400Hz			fec-a_192bd_400hz	X
FEC-A 192Bd 850Hz			fec-a_192bd_850hz	X
FEC-5	SI-FEC			X
FEC12	Visel			X

## Standard Decoder Package

### HF decoders

Modem	Same as	Remarks	Modem File	Src*
FEC 100	FEC-A			X
FEC 101	FEC-A			X
FIRE	CIS-12			X
Frost	CIS 81-81			X
FROST1	CIS 405 3915			X
FT-8			ft8	X
FT-4			ft4	X
Globe Wireless FSK 100Bd			gw_fsk_100bd_200hz	X
Globe Wireless FSK 200Bd			gw_fsk_200bd_200hz	X
Globe Wireless PSK			gw_psk_200bd_psk4	X
Globe Wireless OFDM		detection only	gw_ofdm	-
Globe Wireless Pactor	Globe Wireless FSK/PSK			X
GMDSS	DSC-HF			X
G-TOR 300Bd 180Hz			g-tor_300bd_180hz	X
G-TOR 100Bd 200Hz			g-tor_100bd_200hz	X
G-TOR 200Bd 200Hz			g-tor_200bd_200hz	X
Golay	G-TOR			X
GW DATAPLEX	Globe Wireless FSK/PSK			X
HFDL			hfdl	X
HF-FAX		only for nominal frequency mode	hf_fax	X
HNG-FEC			hng_fec	X
IRA-ARQ	BULG-ASCII			X
ITA-2 Twin	TWINPLEX			X
Japanese Slot Machine		detection only	jsm	X
KG-STV			kg_stv	-
MERLIN	ALIS			X
MEROD 150Bd			merod_150bd	X
MEROD 267Bd			merod_267bd	X
MFSK-8			mfsk-8	X
MFSK-16			mfsk-16	X
MFSK-20	XPA			X
MIL-188-141A	ALE 2G			X
MIL-188-141B	ALE 2G			X
Morse 30-170			morse_30_170	X
MS5	CIS-12			X
MT63-500			mt63-500	X

## Standard Decoder Package

### HF decoders

Modem	Same as	Remarks	Modem File	Src*
MT63-1000			mt63-1000	X
MT63-2000			mt63-2000	X
NUM 13	SP14			X
Olivia 8/250			olivia-8-250	X
Olivia 16/500			olivia-16-500	X
Olivia 32/1000			olivia-32-1000	X
Olivia 64/2000			olivia-64-3000	X
Packet 300			packet-300	X
PACTOR I			pactor_i	-
PACTOR I FEC			pactor_i_fec	-
PACTOR II			pactor_ii	-
PACTOR II FEC			pactor_ii_fec	-
PACTOR III			pactor_iii	-
PACTOR I/II/III		Includes all PACTOR modes I/II/III	pactor	-
PACTOR-4			pactor-4	-
Piccolo MK6			piccolo_mk6	X
Piccolo MK12			piccolo_mk12	X
Piccolo 6	Piccolo MK6			X
Pol-ARQ			pol-arq_100bd	X
Piccolo 12	Piccolo MK12			X
PSK10			psk10	X
PSK-AM 10Bd			psk-am_10bd	X
PSK-AM 31Bd			psk-am_31bd	X
PSK-AM 50Bd			psk-am_50bd	X
PSK31			psk31	X
PSK31-FEC			psk31fec	X
PSK63		variant of PSK31 with higher baud rate	psk63-psk2	X
PSK63-FEC		variant of PSK31 with FEC	psk63_fec	X
PSK125		variant of PSK31 with higher baud rate	psk125_psk2	X
PSK125-FEC		variant of PSK31 with FEC	psk125_fec	X
PSK250		variant of PSK31 with higher baud rate	psk250	X
PSK220-FEC		variant of PSK31 with FEC	psk220_fec	X
QPSK31			qpsk31	X
QPSK63		variant of QPSK31 with higher baud rate	qpsk63	X
QPSK125		variant of QPSK31 with higher baud rate	qpsk125	X
QPSK250		variant of QPSK31 with higher baud rate	qpsk250	X



## Standard Decoder Package

### HF decoders

Modem	Same as	Remarks	Modem File	Src*
QPSK500		variant of QPSK31 with higher baud rate	qpsk500	X
RAC-ARQ	MEROD			X
RACAL-ARQ	MEROD			X
Robust Packet Radio			robust_packet	-
ROU-FEC	RUM-FEC			X
RS-ARQ	ALIS			X
RUM-FEC			rum-fec_165bd	X
Serdolik	CIS-36			X
SI-ARQ			si-arq	X
SI-FEC			si-fec	X
SITOR-A 170Hz			sitor-a_170hz	X
SITOR-A 1300Hz			sitor-a_1300hz	X
SITOR ARQ	SITOR-A			X
SITOR-B 100Bd 170Hz			sitor-b_100bd_170hz	X
SITOR-B 100Bd 400Hz			sitor-b_100bd_400hz	X
SITOR FEC	SITOR-B			X
SP14			sp14	X
SPREAD 11	Autospec			X
SPREAD 21	Autospec			X
SPREAD 51			spread51	X
SSTV		only for nominal frequency mode	sstv	X
Saud-FEC	RUM-FEC			X
SWED-ARQ			swed_arq	X
T-600	CIS-36-50			X
TDM 242	ARQ-M2 242/ARQ-M4 242			X
TDM 342	ARQ-M2-342/ARQ-M4-342			X
TDM 342 1 Channel	ARQ-E3			X
THROB1			throbb1	X
THROB2			throbb2	X
THROB4			throbb4	X
THROBX1			throbbx1	X
THROBX2			throbbx2	X
THROBX4			throbbx4	X
TOR dirty	Sitor B			X
TORG 10/11	CIS-11			X
TORG 14	CIS-14			X

## Standard Decoder Package

### HF decoders

Modem	Same as	Remarks	Modem File	Src*
Twinplex			twinplex	X
Visel			visel	X
Voice J3E		single sideband USB or LSB	voice_j3e	X
Voice J3E-LSB		single sideband LSB	voice_j3e_lsb	X
Voice J3E-USB - SELCAL ICAO		for voice J3E-USB and/or ICAO selcal	voice_j3e_selcal_icao	X
Voice A3E/J3E		double sideband AM or single sideband USB/LSB	voice_a3e_j3e	X
WEATHER-FAX	HF-FAX			X
YUG-MIL	Visel			X
X06 - Mazielka			x06	X
XPA		only for nominal frequency mode	xpa	X
XPA2		only for nominal frequency mode	xpa2	X
XSL	Japanese Slot Machine			X

## Standard Decoder Package

### VHF/UHF decoders

Modem	Same as	Remarks	Modem File	Src*
ACARS VHF			acars_vhf	X
AIS			ais	X
ATIS			atis	X
Autocab		Page 02	autocab	X
BIIS			biis	X
CityRuf	POCSAG	Page 11		X
COSPAS-SARSAT	Distress Radiobeacons			X
Distress Radiobeacons		EPIRB/ELT/PLB	distress_radiobeacons	X
DSC-VHF		Page 13	dsc-vhf	X
ELT	Distress Radiobeacons	Emergency Locator Transmitter		X
EPIRB	Distress Radiobeacons	Page 14		X
ERMES			ermes	X
Flex			flex	X
Flex 1600Bd PSK2		Page 15	flex_1600bd_psk2	X
FMS-BOS			fms_bos	X
GMDSS-VHF	DSC-VHF			X
Golay/GSC	Golay Pager			X
Golay Pager			golay_pager	X
MFSK-32			mfsk-32	X
Mobitex 1200			mobitex-1200	X
Mobitex 80	Mobitex 1200			X
Mobitex 8000			mobitex-8000	X
Mobitex 400	Mobitex 8000			X
Mode-S/ADS-B			mode_s	X
MPT1306	SELCAL CTCSS			X
MPT1316	SELCAL EEA			X
MPT1381	SELCAL DCS			X
NMT450			nmt450	X
Packet 1200			packet-1200	X
Packet 2400			packet-2400	X
Packet 4800			packet-4800	X
Packet 9600			packet-9600	X
PLB	Distress Radiobeacons	Personal Locator Beacon		X
POCSAG 1200Bd			pocsag_1200bd	X
POCSAG 1200Bd 6kHz		shift of 6 kHz	pocsag_1200bd_6khz	X
POCSAG 512Bd			pocsag-512bd	X

## Standard Decoder Package

### VHF/UHF decoders

Modem	Same as	Remarks	Modem File	Src*
POCSAG 2400Bd			pocsag-2400bd	X
SELCAL CCITT		only for nominal frequency mode	ccitt	X
SELCAL CCIR-1		only for nominal frequency mode	ccir	X
SELCAL CCIR-2		only for nominal frequency mode	ccir-2	X
SELCAL CCIR-7	SELCAL CCIR-2	only for nominal frequency mode		X
SELCAL CTCSS	included in Voice F3E - SELCALs			X
SELCAL DCS	included in Voice F3E - SELCALs			X
SELCAL DTMF	included in Voice F3E - SELCALs			X
SELCAL DTMF sub		for baseband demodulation	dtmf_sub	X
SELCAL DZVEI	included in SELCAL ZVEI	only for nominal frequency mode		X
SELCAL EEA		only for nominal frequency mode	eea	X
SELCAL EIA		only for nominal frequency mode	eia	X
SELCAL EURO		only for nominal frequency mode	euro	X
SELCAL EURO5	SELCAL EURO	only for nominal frequency mode		X
SELCAL MODAT		only for nominal frequency mode	modat	X
SELCAL NATEL		only for nominal frequency mode	natel	X
SELCAL PCCIR	SELCAL CCIR-1			X
SELCAL PDZVEI	included in SELCAL ZVEI			X
SELCAL PZVEI	included in SELCAL ZVEI			X
SELCAL VDEW		only for nominal frequency mode	vdew	X
SELCAL ZVEI	included in Voice F3E - SELCALs			X
SELCAL ZVEI-1	included in SELCAL ZVEI			X
SELCAL ZVEI-2	included in SELCAL ZVEI			X
SELCAL ZVEI-3	included in SELCAL ZVEI			X
VDL 2			vd12	X
VDL 3			vd13	X
Voice A3E		for voice AM	voice_a3e	X
Voice A3E Air Traffic		to monitor VHF voice air traffic	voice_a3e_air_traffic	X
Voice F3E - SELCALs		for voice FM, includes several selcals	voice_f3e_selcals	X
Voice Inversion (FM-LSB)		scrambled analog voice	voice_inversion	X

## PMR Decoder Package (optional)

### SAT decoders

Modem	Same as	Remarks	Modem File	Src*
INMARSAT AERO-C 8.4kbps			inmarsat_aero-c_8400	-
INMARSAT AERO-C 10.5kbps		audio output not included	inmarsat_aero-c_10500	-
INMARSAT AERO-C 21.0kbps		audio output not included	inmarsat_aero-c_21000	-
INMARSAT AERO-P 0.6kbps		Page 02	inmarsat_aero-p_600	-
INMARSAT AERO-P 1.2kbps			inmarsat_aero-p_1200	-
INMARSAT AERO-P 10.5kbps		Page 11	inmarsat_aero-p_10500	-
INMARSAT AERO-R 0.6kbps			inmarsat_aero-r_600	-
INMARSAT AERO-R 1.2kbps			inmarsat_aero-r_1200	-
INMARSAT AERO-R 10.5kbps		Page 13	inmarsat_aero-r_10500	-
INMARSAT AERO-T 0.6kbps			inmarsat_aero-t_600	-
INMARSAT AERO-T 1.2kbps		Page 14	inmarsat_aero-t_1200	-
INMARSAT AERO-T 10.5kbps			inmarsat_aero-t_10500	-
INMARSAT-C TDM			inmarsat_c_tdm	-
INMARSAT-C TDMA		Page 15	inmarsat_c_tdma	-
INMARSAT IsatPhone Uplink		detection only	isatphone_uplink	-
Iridium Uplink		detection only	iridium_uplink	-
Thuraya Uplink		detection only, but RACH bursts are decoded	thuraya_uplink	-

## Professional Monile Radio PMR Decoder Package (optional)

### Professional Monile Radio PMR decoders

Modem	Same as	Remarks	Modem File	Src*
APCO-25			apco-25	-
APCO-25 Phase2 Downlink			apco-25_phase2_downlink	-
DECT			dect	-
DMR		Page 02	dmr	-
DMR Continuous		for continuous emissions	dmr_continuous	-
dPMR		Page 11	dpmr	-
D-STAR			d-star	-
GSM		GSM Control Channel C0	gsm	-
IDAS	NXDN	Page 13		-
Motorola SmartNet 4kHz			smartnet4khz	-
Motorola SmartNet 6kHz		Page 14	smartnet6khz	-
MotoTRBO	DMR	Motorola's version of DMR		-
MPT1327		control channel	mpt1327	-
MPT1327 Uplink		Page 15	mpt1327_uplink	-
NEXEDGE	NXDN	Kenwood's version of NXDN		-
NXDN 2400Bd			nxdn_2400bd	-
NXDN 4800Bd			nxdn_4800bd	-
P-25	APCO-25			-
TETRA		usage of TEA 1/3/4 if key available	tetra	-
TETRA DMO		usage of TEA 1/3/4 if key available	tetra_dmo	-
TETRA Uplink			tetra_uplink	-
Tetrapol			tetrapol	-
Tetrapol VHF		for VHF range only	tetrapol-vhf	-
Yaesu System Fusion		12.5 kHz bandwidth	yaesu_fusion	-
Yaesu System Fusion NB		6.25 kHz bandwidth	yaesu_fusion_nb	-

## Military MIL Decoder Package

### HF decoders

Modem	Same as	Remarks	Modem File	Src*
ALE 3G			ale-3g	-
ALE 4G		detection only	ale-4g	-
CHN 4+4		for signals with normal polarity (USB)	chn4plus4	-
CHN 4+4 (INV)		Page 02	chn4plus4_inv	-
CV-786			cv-786	-
Haegelin-Cryptos	HC-ARQ	Page 11		-
KG-84		detection only, included in various decoders, see datasheet		-
HC-ARQ			hc-arq	-
Link 11 CLEW		Page 13	link-11_clew	-
Link 11 CLEW UHF		UHF version with FM primary modulation	link-11_clew_uhf	-
Link 11 SLEW	STANAG 5511 SLEW	Page 14	link-11_slew	-
Link 22		only STANAG 4539 Appendix D	link-22	-
MD-522	MIL-M-55529A			-
MD-674	MIL-M-55529A	Page 15		-
MIL-188-110A ser.	partly included in STANAG 4539/4415			-
MIL-188-110 App. C	STANAG 4539			-
MIL-188-110B ser.	partly included in STANAG 4539/4415			-
MIL-188-110 App.C	partly included in STANAG 4539 HDR			-
MIL 188-110C App.D 3kHz			milstd_188_110c-appd_3khz	-
MIL 188-110C App.D 6kHz			milstd_188_110c-appd_6khz	-
MIL 188-110C App.D 9kHz			milstd_188_110c-appd_9khz	-
MIL 188-110C App.D 12kHz			milstd_188_110c-appd_12khz	-
MIL 188-110C App.D 15kHz			milstd_188_110c-appd_15khz	-
MIL 188-110C App.D 18kHz			milstd_188_110c-appd_18khz	-
MIL 188-110C App.D 21kHz			milstd_188_110c-appd_21khz	-
MIL 188-110C App.D 24kHz			milstd_188_110c-appd_24khz	-
MIL-188-110 16 Tone		only raw output	mil188-110_16tone	-
MIL-188-110 39 Tone			mil188-110_39tone	-
MIL-188-141B App. C	ALE 3G			-
MIL-188-141D App. G	ALE 4G			-
MIL-M-55529A			mil-m-55529a	-
Panther-H Sync		detection of synchronisation bursts only	panther-h_sync	-
STANAG 4197		audio codec not included	stanag4197	-
STANAG 4285		Terminal Mode: ASCII8 & Baudot	stanag4285	-
STANAG 4415		75bps (also Part of Mil188-110A/B)	stanag4415	-
STANAG 4481 (FSK)			stanag4481_fsk	-

## Military MIL Decoder Package

### HF decoders

Modem	Same as	Remarks	Modem File	Src*
STANAG 4481 (PSK)	included in STANAG 4285			-
STANAG 4529		Terminal Mode: ASCII8 & Baudot	stanag4529	-
STANAG 4538	ALE 3G			-
STANAG 4539		150-4800 Bit/s	stanag4539	-
STANAG 4539 HDR		3200 - 4800 Bit/s	stanag4539-hdr	-
STANAG 5065		(also Part of Mil188-110A/B)	stanag_5065_fsk	-
STANAG 5066		included in various decoders, see datasheet		-
STANAG 5511	Link 11 CLEW			-
STANAG 5511 SLEW	Link 11 CLEW			-
TADIL A	Link 11 CLEW			-
TADIL B	Link 11 CLEW			-
Thales System 3000 Skymaster SelCal		detection only	sys3000selcall	-
Turkish Navy FSK 600Bd 400Hz			turkish_navy_fsk_600Bd_400Hz	-
Turkish Navy FSK 1200Bd 800Hz			turkish_navy_fsk_1200Bd_800Hz	-
WALE	ALE 4G			-
WB-HF	MIL 188-110C App.D			-