

PSM-500 Series FEC Option Table Rev 1.8 Modem Firmware V 0.77+													
Code Code Code Code Code Code Code Code													
FEC Type	Sel #	FEC Type Option	Sel #		Sel #	R-S Option	Modulation Modes (see notes) & Sel #						
Туре	π	Option	π	Available	π	Option	BPSK 0	QPSK 1	OQPSK 2	8PSK 3	8QAM 4	No Use 5	16QAM 6
None	0	N/A	0	N/A	0		•		•		-	110 000 0	
110110	Ť	14/7 (		14/71	Ŭ								
Viterbi	1	Normal	0	1/2	0	•	•	•	•				•
				3/4	1	•	•	•	•				•
				5/6	2	•	•	•	•				•
				7/8	3	•	•	•	•				•
		Swap C0/C1	1	1/2	0	•	•	•	•				•
		•		3/4	1	•	•	•	•				•
				5/6	2	•	•	•	•				•
				7/8	3	•	•	•	•				•
		СТ	2	3/4	1	• •							•
				7/8	2	•							•
TCM	2		0	2/3	0	•				•			
<b>TF</b> •				0.450.40									
TPC	4	Advanced	0	0.453-16k	0		•	•	•		•		•
				1/2-16k	1		•	•	•		•		•
				1/2-4k	2		•	•	•		•		•
				3/4-16k	3		•	•	•	•	•		•
				3/4-4k	4		•	•	•	•	•		•
				7/8-16k	5		•	•	•	•	•		•
				7/8-4k	6		•	•	•	•	•		•
				0.922-16k	7		•	•	•	•	•		•
				0.950-4k	8		•	•	•	•	•		•
		M5 Full	1	1/2	0		•	•					
		*TPC4k Onl	У	3/4	1		•	•					
		,	ĺ	7/8	2		•	•					
		M5 Short	2										
				3/4	1		•	•					
		*TPC4k Only		7/8	2		•	•					
		M5 Legacy	3										
		g,	_	3/4	1		•	•					
				7/8	2		•	•					
		СТ	4	5/16	0		•						
		<del>- ·</del>		21/44	1		•	•	•				
				3/4	2		•	•	•	•	•		•
	$\vdash$	*TPC16k on	lv	7/8	3			•	•	•	•		•
		11 0 100 011	. 9	0.95	4		•	•	•	•	•		•
	$\vdash$			3.00						H	H		
LDPC	5	Any	0	1/2	0		•	•	•	•	•		•
LDIO		Block Size		2/3	1			•	•	•	•		•
		256~16k		3/4	2			•	•	•	•		•
	$\vdash\vdash\vdash$	Option 0~6		14/17	3			•	•	•	•		•
		≎ριιστί υ~υ		7/8	4			•	•	•	•		•
	$\vdash\vdash\vdash$			10/11	5			•	•	•	•		•
	$\vdash\vdash\vdash$			16/17	6	<u> </u>		•	•	•	•		•
				10/17	J						_		
S-Tec	6	Λnv	0	1/2	0		•	•	•	•			•
3-1ec	O	Any Interleaver	U	3/5			-	•					
	$\vdash\vdash\vdash$				1		•		•	•			•
		Block Size		3/4	2		•	•	•	•			•
		Option 0~4		4/5	3	ļ	•	•	•	•			•
				5/6	4		•	•	•	•			•
				7/8									

## Notes:

- 1. The TPC M5 Full, Short and Legacy modes are intended for PSM-4900 Compatibility. They may be extended to other modulation modes in the future.
- 2. Not shown are other FECs in development.
- 3. \* TPC 4k/16k restrictions apply to that line and Code Rate only.
- 4. TPC4k Max data rate limits see below.
- 5. TPC16k operates up to 20 Mbps depending on Feature Set and modulation.
- 6. The Viterbi, Rate 3/4 & 7/8, 16QAM CT mode only for Comtech modem compatibility as they only operate in this mode with R-S at 220, 200, depth of 4. R-S is auto-enabled.
- 7. TPC Advanced modes are Datum Systems proprietary implementations that require the TPC16k option only for the colored lines. They offer superior performance to CT modes.

TPC4k M5 Mode Limits: Rate 1/2 = 2.46 Mbps, Rate 3/4 or 7/8 = 4.92 Mbps.

TPC4k CT Mode Limits: Rate 5/16 = 2.048 Mbps, 21/44 = 3.2 Mbps, 3/4 = 5 Mbps, 0.95 = 6.6 Mbps.

LDPC2k Mode Limits: Aproximately 3.00 Mbps.

LDPC16k Mode Limits: 29.52 Mbps limited by interface and modulation.