

PSM-500 Series FEC Option Table Rev 1.6 Modem Firmware V 0.71+														
FEC Type	Sel #	FEC Type Option	Sel #	Code Rates Available	Sel #	R-S Option	Modulation Modes (see notes) & Sel #							
							BPSK 0	QPSK 1	OQPSK 2	8PSK 3	8QAM 4	16APSK 5	16QAM 6	
None	0	N/A	0	N/A	0		●	●	●					
Viterbi	1	Normal	0	1/2	0	●	●	●	●				●	
				3/4	1	●	●	●	●				●	
				5/6	2	●	●	●	●				●	
		Swap C0/C1	1	1/2	0	●	●	●	●					●
				3/4	1	●	●	●	●					●
				5/6	2	●	●	●	●					●
		CT	2	3/4	1	◆◆	●	●	●	●				●
				7/8	2	◆◆	●	●	●	●				●
		TCM	2		0	2/3	0	●				●		
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 Only		3/4	1		●	●						
				7/8	2		●	●						
		M5 Short	2											
				3/4	1		●	●						
		*TPC4k Only		7/8	2		●	●						
		M5 Legacy	3											
				3/4	1		●	●						
				7/8	2		●	●						
		CT	4	5/16	0		●	●						
		21/44	1		●	●	●							
		3/4	2		●	●	●	●	●		●			
*TPC16k only		7/8	3		●	●	●	●	●	●	●			
		0.95	4		●	●	●	●	●		●			
S-Tec	6	Any	0	1/2	0		●	●	●	●			●	
				Interleaver		3/5	1		●	●	●	●		●
				Block Size		3/4	2		●	●	●	●		●
				Option 0-4		4/5	3		●	●	●	●		●
						5/6	4		●	●	●	●		●
		7/8												

Notes:

- 16APSK modes to be determined.
- 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.
- Not shown are other FECs in development.
- * TPC 4k/16k restrictions apply to that line and Code Rate only.
- TPC4k Max data rate limits see below.
- TPC16k operates up to 20 Mbps depending on Feature Set and modulation.
- 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.
- 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.