COMMAND NAME	COMMAND CODE	INPUT DATA	OUTPUT DATA
READ EVENT DATA	00000xxx	–	Event data packet
READ SEU FLAGS/TEMPERATURE SENSOR	00001xxx	–	SEU & Temperature word
READ OPERATING MODE	00010xxx	–	00000ISA
READ SHAPER TIME CONSTANT	00011xxx	–	00000TTT
READ CSA REFERENCE REGULATION	00100xxx	–	0000HRRR
READ GLOBAL BIAS REGULATION	00101xxx	–	0000TBBB
READ LEAKAGE CURRENT MASK	00111xxx	–	32 bit word
READ DISCRIMINATOR ENABLE MASK	01000xxx	–	32 bit word
READ CALIBRATION MASK	01001xxx	–	32 bit word
READ DISCRIMINATOR THRESHOLD	01010xxx	–	DDDDDDDD
READ FINE THRESHOLD ADJ. CH. # NNNNN	011NNNNN	–	00000FFF
WRITE OPERATING MODE	10010ISA	–	–
WRITE SHAPER TIME CONSTANT	10011TTT	–	–
WRITE CSA REFERENCE REGULATION	10100xxx	0000HRRR	–
WRITE GLOBAL BIAS REGULATION	10101xxx	0000TBBB	–
SET CALIBRATION DAC VOLTAGE	10110xxx	16 bit word	–
WRITE LEAKAGECURRENT MASK	10111xxx	32 bit word	–
WRITE DISCRIMINATOR ENABLE MASK	11000xxx	32 bit word	–
WRITE CALIBRATION MASK	11001xxx	32 bit word	–
WRITE DISCRIMINATOR THRESHOLD	11010xxx	DDDDDDDD	–
WRITE FINE THRESHOLD ADJ. CH. # NNNNN	111NNNNN	00000FFF	–

NOTES

- OPERATING MODE:
  - I = read out leakage current (1 = leakage, 0 = temperature, default is 0)
  - S = self-trigger (1 = enabled, default is 0),
  - A = acquisition mode (0 = zero suppression, 1 = full read-out, default is 0)
- SHAPER TIME CONSTANT: TTT = 3 bit time constant selection
- CSA REFERENCE REGULATION:
  - H = test at room temperature (1 = enabled, default is 0)
  - RRR = 3 bit reference regulation
- GLOBAL BIAS REGULATION:
  - T = select temp. source (1 = ASIC, 0 = PCB default)
  - BBB = 3 bit bias current reg.
- DISCRIMINATOR THRESHOLD: DDDDDDDD = 8 bit threshold
- FINE THRESHOLD ADJ.: FFF = 3 bit fine threshold adjustment (one for each channel)