

## STARS-II FM Telemetry format

### Mother Satellite

#### FM Telemetry (HouseKeeping Data)

Data	Data size	Quantity	Sum
	byte		byte
Header	7	1	7
Time	8	1	8
Temperature	3	8	24
Voltage	3	8	24
Current	3	6	18
Gyro data	3	3	9
Acceleration data	3	3	9
Magnetism data	3	3	9
Encoder data	6	3	18
Satellite status	2	2	4
Mode	2	1	2
Command	3	1	3
Footer	2	1	2
total			137

#### FM Telemetry (Mission Data)

Data	Data size	Quantity	Sum
	byte		byte
Header	7	1	7
Time	8	1	8
Gyro data	3	3	9
Acceleration data	3	3	9
Magnetism data	3	3	9
Encoder data	6	3	18
Command	3	1	3
Footer	2	1	2
total			65

#### FM Telemetry (Camera Picture Data)

Data	Data size	Quantity	Sum
	byte		byte
Header	7	1	7
Picture data	136	1	136
Footer	2	1	2
total			145

## Daughter Satellite

### **FM Telemetry (HouseKeeping Data)**

Data	Data size	Quantity	Sum
	byte		byte
Header	7	1	7
Time	8	1	8
Temperature	3	8	24
Voltage	3	8	24
Current	3	6	18
Gyro data	3	3	9
Acceleration data	3	3	9
Magnetism data	3	3	9
Encoder data	6	2	12
Potentiometer data	3	2	6
Satellite status	2	2	4
Mode	2	1	2
Command	3	1	3
Footer	2	1	2
total			137

### **FM Telemetry (Mission Data)**

Data	Data size	Quantity	Sum
	byte		byte
Header	7	1	7
Time	8	1	8
Gyro data	3	3	9
Acceleration data	3	3	9
Magnetism data	3	3	9
Encoder data	6	2	12
Potentiometer data	3	2	6
Command	3	1	3
Footer	2	1	2
total			65

### **FM Telemetry (Camera Picture Data)**

Data	Data size	Quantity	Sum
	byte		byte
Header	7	1	7
Picture data	136	1	136
Footer	2	1	2
total			145