



Kyutech

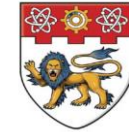
Kyushu Institute of Technology

国立大学法人

九州工業大学



La SEINE



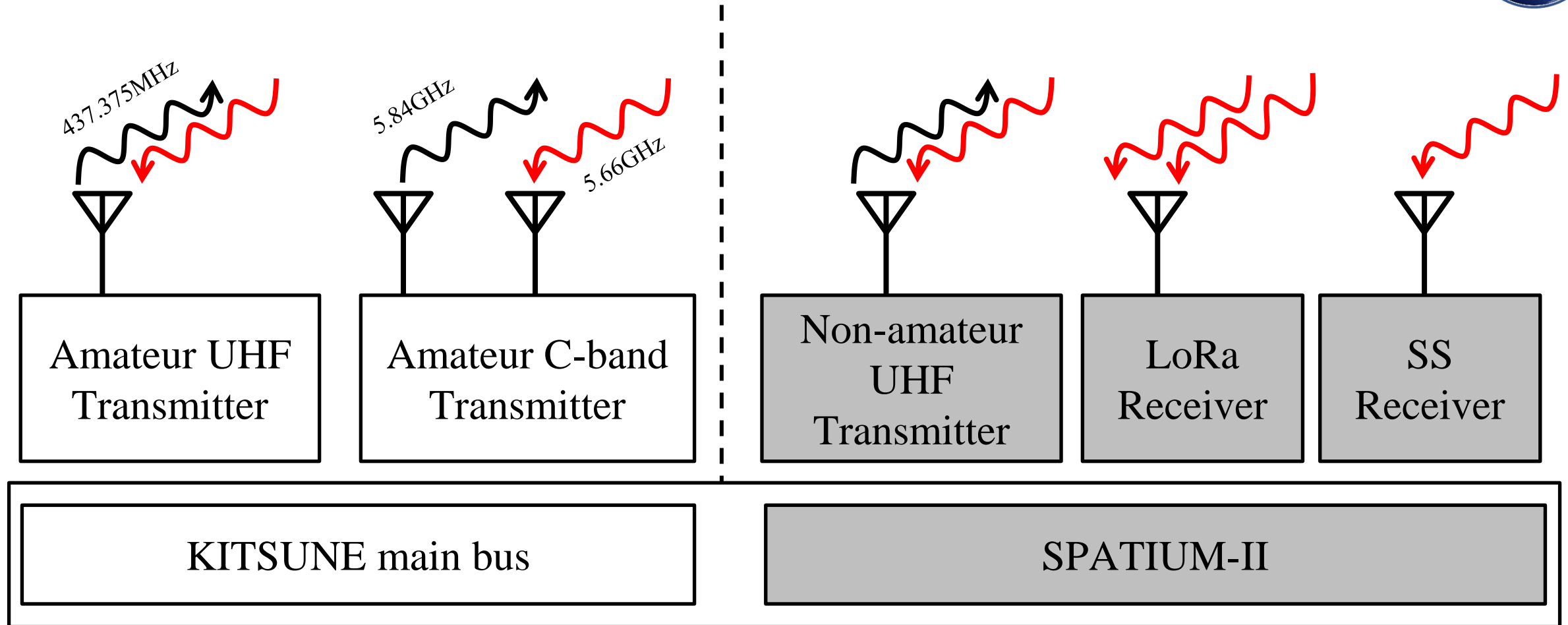
**NANYANG
TECHNOLOGICAL
UNIVERSITY**



KITSUNE Armature CW Information

Update: 18th March, 2022

KITSUNE communication system





CW beacon information

CW Beacon	Frequency	Period	Number of Letters
Amateur UHF beacon (KITSUNE main bus)	437.375 MHz	100 seconds	24
Amateur C-band (KITSUNE main bus)	5840.000 MHz	(After specific C-band uplink from an amateur station)	27 “DE JG6YNH KITSUNE xxxx yyyyyy GB” xxxx : received power yyyyyy : call sign of requesting station



KITSUNE amateur frequency UHF CW beacon

CW Letter	No. of Letters	Bit length	Identifier
1	2	8	Battery Voltage
2	2	8	Battery Current
3	2	8	Battery Temperature
4	0.5	2	Format identifier (0)
5	0.25	1	Antenna Deployment Status
6	0.25	1	Solar Cell +X
7	0.25	1	Solar Cell -X
	0.25	1	Solar Cell +Y
	0.25	1	Solar Cell -Y
8	0.25	1	Solar Cell +Z
	2	8	Battery Voltage
	2	8	Battery Current
	2	8	Battery Temperature

CW Letter	No. of Letters	Bit length	Identifier
1	2	8	Gyro X axis (deg/s)
2			
3	2	8	Gyro Y axis (deg/s)
4			
5	2	8	Gyro Z axis (deg/s)
6			
7	0.5	2	Format identifier (1)
	0.25	1	Kill Switch Main PIC
	0.25	1	Kill Switch EPS
8	0.25	1	Battery Heater
	0.75	3	Subsystems communicating

CW Letter	No. of Letters	Bit length	Identifier
1	2	8	CPLD Temperature
2			
3	2	8	Average Lens Temperature
4			
5	1	4	ADCS mode
6	1	4	Time after last reset (hours) MSB
7	0.5	2	Format identifier (2)
	0.5	2	Scheduled commands in memory
8	1	4	Time after last reset (hours) LSB