## SYSTEM SATELLITES IN SERVICE

Date of Launch Launch Vehicle **Launch Centre** 

**Drv Mass** Lift-off Mass Size

Lenath when fully deployed Power **Mission Life** 

**Payload** 

SAT-2E April 03, 1999 Ariane 4

Kourou(CSG). FrenchGuvana

2550 kg

1150 kg

**Cuboid** of 1.93x1.77x2.37m

26 m

2050 W 12 years

observation

12 C-band Transponders | 12 Extended C-band and 5 Extended C-band Transponders for 3 Ku-band Communications: and a Mobile A Very High Resolution Radiometer and a CCD Camera for **Meteorological** 

VSAT-3B

March 22, 2000

Ariane 5 Kourou(CSG),

FrenchGuvana

970 kg 2070 kg

**Cuboid** of 1.93x1.7x1.65 m

14.7 m

1700 W 10 years

Transponders. **Transponders Satellite Service** (MSS) Transponder INSAT-3C

**January 24, 2002** 

Ariane 4

Kourou(CSG). FrenchGuvana

1218 kg 2750 kg

**Cuboid** of 2.0x1.77x2.8 m

15.5 m

2750 W 12 years

24 C-band. 6 Extended C-band. 2 S-band (for

**Broadcast Satellite** Service) and 1 Mobile Satellite Service (MSS) **Transponders** 

KALPANA-1

September 12, 2002

PSLV-C4

SatishDhawanSpace Centre.Sriharikota.India FrenchGuvana

500 kg

1060 kg

**Cuboid** of 1.47x1.5x1.53 m

3.4 m

550 W

7 years

A Very High Resolution Radiometer (VHRR) and **Data Relay Transponder**  INSAT-8A

April 10, 2003

Ariane 5

Kourou(CSG).

1350 kg

2950 kg **Cuboid** of

2.0x1.77x 2.8 m

24.5 m

3100 W

12 years

C-band, 6 Ku-band Transponders for Communications: **Very High Resolution** Radiometer and CCD Camera for Meteorological observation: Data **Relay Transponder** and Search and Rescue Transponder

GSAT-2

May 08, 2003

GSLV-D2 SatishDhawanSpace Centre.Sriharikota.India

840 kg

1800 kg **Cuboid** of

2.4x1.65x1.53 m 9.5 m

7 vears

1380 W

12 C-band. 6 Extended 4 C-band. 2 Ku-band and 1 Mobile **Satellite Service** (MSS) Transponders for Communications: 4 Scientific/ **Experimental Pavloads** 

INSAT-3E

September 28, 2003

Ariane 5 Kourou(CSG).

FrenchGuvana

1181 ka 2750 kg

**Cuboid** of 2.0x1.77x2.8 m

15.5 m

2400 W 12 years

24 C-band. 12 Extended C-band **Transponders** 

**September 20, 2004** 

GSLV-F01

SatishDhawanSpace Centre.Sriharikota.India FrenchGuyana

820 kg 1950 kg

**Cuboid** of 2.4x1.65x1.15 m

11 m

2050 W 7 years

> 5 Ku-band **Transponders** with Spot Beams. 1 Ku-band Transponder with National Beam and

6 Extended C-band

Transponders with

National Beam

NISAT-4A **December 22. 2005** 

Ariane 5

Kourou(CSG). 1387 kg

3086 kg

**Cuboid** of 2.0x1.77x2.8 m

15.16 m

5500 W

12 years 12 High Power Ku-band

**Transponders with** footprint covering Indian mainland. 12 C-band **Transponders with** expanded coverage INSAT-48

March 12, 2007 Ariane 5

Kourou(CSG). FrenchGuvana

1337 kg

3025 ka **Cuboid of** 

15.4 m

2.0x1.77x3.1 m

5860 W

12 years 12 High Power

**Ku-band Transponders** with footprint covering Indian mainland. 12 C-band **Transponders with** expanded coverage

**September 02. 2007** 

GSLV-F04

**SatishDhawanSpace** Centre.Sriharikota.India

941 kg

2130 kg

**Cuboid** of 1.650x1.530x2.400 m

9.45 m

2870 W

10 years

12 High Power **Ku-band Transponders** designed to provide communication services such as DTH television. **Video Picture** Transmission (VPT) and Digital Satellite News Gathering (DSNG)



