

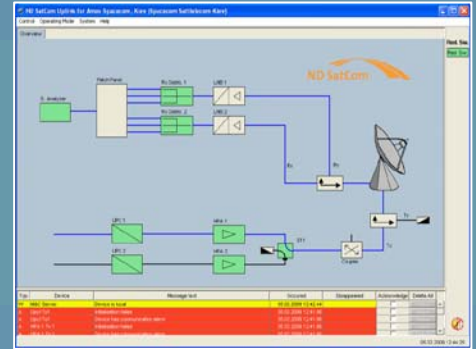
6.3m SMART UPLINK



6.3m Antenna



Outdoor Equipment



M&C System

6.3m Uplink Station

The ND SatCom 6.3m Uplink Station is designed for uplink operation with medium up to high uplink power in Ku- Band (13.75 – 14.50 GHz) or K- Band (17.30– 18.40 GHz).

Potential applications for such an uplink are:

- TV Distribution, e.g. DTH (Direct-to-Home)
- TV Redistribution, e.g. receiving feeds from other fixed systems and retransmission in a customized bouquet
- TV Contribution, e.g. receiving SNG feeds

Typical applications for such an Uplink Station are contribution services from local subsidiaries of a TV- station to the studio at headquarter, especially if the transmission needs a bandwidth in the range of 8 MHz and higher (e.g. EBU transmissions in MPEG 4:2:2 standards).

The system can be offered on turnkey basis or as a supervised system only where installation is carried out by the customer but under the supervision of NDSatCom.

Key Features

- 6.3m K/Ku-Band Antenna
- 1+1 or 2+1 Redundancy of full transmit chain(s)
- High uplink power by using 400W or 750W Outdoor HPA
- Standard ND SatCom M&C System

Options

- Linearizer
- Equipment Shelter
- Uplink power control system for constant signal quality

/ High quality equipment integrated providing high reliability.

/ Easy to operate due to a clearly arranged system design.

/ Reliable support and after sales service performed by an experienced ND SatCom service team

**// Compact,
versatile, efficient //**

6.3m Smart Uplink Station

TECHNICAL SPECIFICATIONS

	Ku Band		K Band	
Antenna Type	Cassegrain			
Transmit Gain	57.5 dBi	@ midband	59.1 dBi	@ midband
Receive Gain	55.7 dBi	@ midband	55.2 dBi	@ midband
Antenna noise temperature	66 K	at 20° elevation	61 K	at 20° elevation
Travel Range	0° to 90° continuous 120° continuous		Elevation Azimuth	
Wind Loading Operation (survival)	72 km/h gusting to 97 km/h (200 km/h in any position)			
Polarization	4 port LP			
Antenna Side lobes	Compliant to ITU-RS-580, FCC			
Cross Polarization Isolation	35dB on axis		35dB on axis	
Transmit Frequency	13.75 – 14.5 GHz		17.30 – 18.40 GHz	
TWT Power	400 W	750 W	750 W	
Flange power	350 W 25.4 dBW	630 W 28.0 dBW	630 W 28.0 dBW	
Operational EIRP max. [Linearized]	76.2 dBW [79.2 dBW]	78.7 dBW [81.7 dBW]	79.2 dBW [82.2 dBW]	
Receive Frequency	10.7 – 12.75 GHz		10.7 - 12.75 GHz	
G/T @20° Elevation with 70K LNA	34.4 dB/K		34.0 dB/K	
Modulation	DVB-S/S2			
Symbol Rate up to	45 Mbaud			
Modulator Input	ASI or IP			
Rack Spaces (Indoor units)	15 to 25 HU			
Power consumption[with de-icing]	3.5 kVA [31.5 kVA]	5.7 kVA [32.7 kVA]	6 kVA [33 kVA]	
Operating Temperature Range	-40°C to +50°C			
Humidity	0 to 100% condensing			

