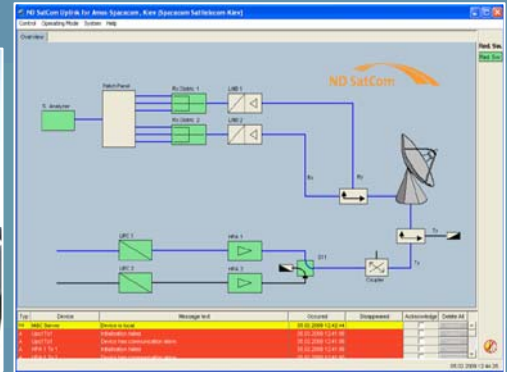


3.5m SMART UPLINK



3.5m Antenna



M&C System

3.5m Ka-Band Uplink Station

The ND SatCom 3.5m Uplink Station is designed for uplink operation with medium up to high uplink power in Ka- Band (27.5 – 30.0 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 headquarters, 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 ND SatCom.

Key Features

- 3.5m Ka-Band Antenna
- 1+1 or 2+1 Redundancy of full transmit chain(s)
- High uplink power by using 200W or 500W Ka-Band Outdoor HPAs
- 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 //

3.5m Smart Uplink Station

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	Ka Band Uplink Station		
Antenna Type	Gregorian		
Transmit Gain	58.0 dBi @ midband		
Receive Gain	54.3 dBi @ midband		
Antenna noise temperature	96 K at 30° elevation		
Travel Range	0° to 90° Continuous 360° Coarse, 30° Steps (±24° Continuous)	Elevation	Azimuth
Polarization	4 port linear or circular polarized		
Wind Loading Operat.(survival)	141 km/h with ice (240 km/h)		
Antenna Side lobes	Compliant to ITU-RS-580-5/465-5, FCC 25.209		
Cross Polarization Isolation	35dB		
TWT Power	250W		500W
Transmit Frequency	27.5 – 30.05 GHz		
Operational EIRP max. [Linearized]	70 dBW [73 dBW]		73.5 dBW [76.5 dBW]
Receive Frequency	18.3 - 20.2 GHz		
G/T@20° Elevation with 110K PLL LNB	30.8 dB/K		
Modulation	DVB-S/S2		
Symbol rate up to	45 Mbaud		
Modulator Input	ASI or IP		
Rack Space (indoor units)	15 to 25 HU		
Power consumption[with de-icing]	6.5 kVA [12.5 kVA]		9 kVA [15 kVA]
Operating Temperature Range	-40°C to +50°C		
Humidity	0 to 100% condensing		

