

# ASTRA 2D - 28.2° EAST



PUBLISHED | FEBRUARY 2003



## Direct-to-Home services in the UK and Ireland

The ASTRA 2D satellite is located at 28.2° East, ASTRA's prime orbital position for Direct-to-Home services in the UK and Ireland, providing capacity mainly for the transmission of broadcast and broadband multimedia services to consumer audiences.

### SATELLITE INFORMATION

#### Satellite launch information

Launch date: 19.12.2000  
 Launch vehicle: Ariane 5  
 Launch site: Kourou, French Guiana  
 Launch mass: 1420 kg

#### Satellite orbital information

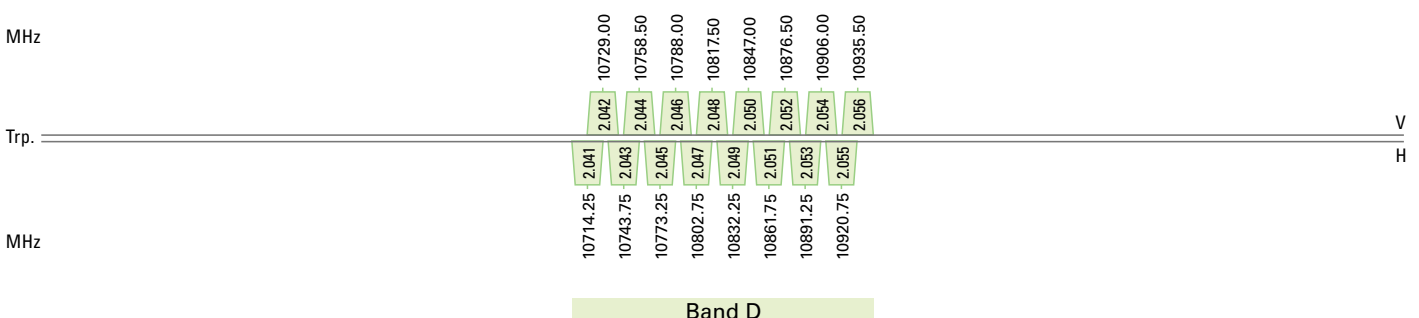
Satellite manufacturer: Hughes  
 Orbital location: 28.2° East  
 Stabilization system: spin type  
 Expected lifetime: 12 years  
 Total power consumption: 1600 Watts

#### Satellite transponder information

Transponder capacity: 16  
 TWTA output power: 39 Watts  
 EIRP: 51 dBW  
 All transponders are eclipse protected  
 Transponder bandwidth: 26 MHz

### CHANNEL CAPACITY

10.70 - 10.95 GHz: 16 channels (Band D)  
 Channel Number Allocation and Downlink Centre Frequencies



# ASTRA 2D FOOTPRINT



Typical dish sizes:

50 cm

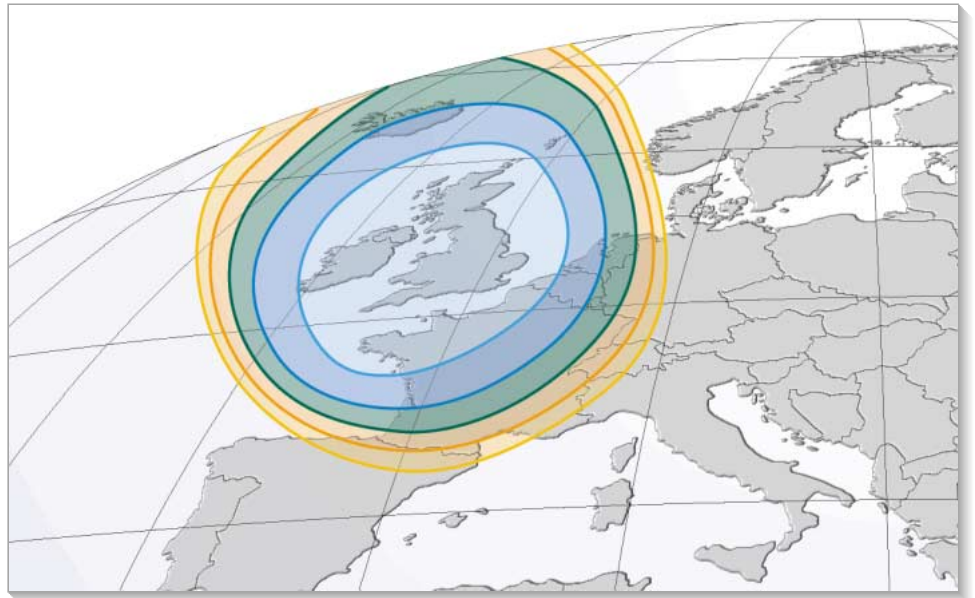
60 cm

75 cm

90 cm

120 cm

## ASTRA 2D



## ASTRA ORBITAL POSITIONS AND BACK-UP – SAFEGUARDING REVENUE

By co-locating satellites at one orbital position, ASTRA can offer easy ways of expanding service ranges and highest transmission security. The key advantage is that audiences can use the same direct-to-home reception equipment when broadcasters and broadband

service providers extend their services at the same orbital position. The ASTRA satellite system through its co-located satellites at prime orbital positions also has the strength to provide a unique form of in-orbit back-up. If for any reason, a transponder is switched off, a back-up

transponder on the same satellite or a co-located satellite can be immediately activated. The back-up system can therefore guarantee high operational security and continuity of service for both our customers and the end consumer.

Freq. (GHz)	10.70	10.95	11.20	11.70	12.10	12.50	12.75	
	Band D		Band C	Band E			Band F	Band G**
ASTRA 2A				✓	✓			
ASTRA 2B				✓	✓		✓	
ASTRA 2D	✓							
ASTRA 2C*	✓		✓	✓	✓			
	Low Band (32 transponders)			High Band (56 transponders)				

\*ASTRA 2C is not yet operational at 28.2° East \*\*outside Europe