

Advanced Public Information for n-GSO satellite networks
cf. RR Article 9, Sub-Section IA
Space Cap

18/3-2019

Item	Parameter	Comments	Value
Notice			
A1f1	Notifying administration		NOR
A1a	Identity of satellite networks		Tyvak-0129
A4b1	Number of orbital planes		1
A4b2	Reference body	Earth	T
A4b3a	No. of satellites in north hemisphere		1
A4b3b	No. of satellites in south hemisphere		1
A4b4 Orbital plane information			
	Orbital plane id		1
A4b4a	Inclination for each plane [°]		98
A4b4b	Satellites in plane		1
A4b4c	Period in days, hours, minutes	D:H:M	00:01:36
A4b4d	Apogee [km] Apogee exp		500 0
A4b4e	Perigee [km] Perigee exp		500 0
A4b4f	Minimum altitude [km]		500
Rx Beam UHFRX			
B2	Rx/Tx beam		Rx
B1a	Beam designation		UHFRX
B1b	Steerable beam		No
B3a1	Max isotropic gain [dBi]		0
B4a1	Orbit link, orbit id		1
B4a2	Orbit link, satellite id		0
B3c1	Co-polar radiation pattern id		610
Group 12 UHFRX			
Characteristics common to a group of frequencies			
C4a	Class of station	EESS	TW
C4b	Nature of service	Limited public corr	CR
C6	Polarisation	Circular	CR
C5a	Rx system noise temperature [°]		303
C11a	Service area	Norway	NOR
General characteristics			
A2b	Period of validity [years]		20
A3a	Operating agency	Info attached	9999
A3b	Responsible administration		A Nkom
Emissions			
C7a	Designation of emission		28K8G1D
C8a1	Maximum peak power [dBW]		22,6
C8a2	Maximum power density [dBW/Hz]		-19,6
C8c1	Minimum peak power [dBW]		13,0
C8c2	Minimum power density [dBW/Hz]		-29,2
C8e1	C/N [dB]		85
C9a1	Type of modulation		PSK
C7b	Carrier frequencies [MHz]		401,205
Frequencies			

C1	Frequency range	From To		401,1906 MHz 401,2194 MHz
Associated earth station				
C10b2	Type of station		Typical/Specific	T
C10b1	Associated earth station name			ORBEX1
C10d1	Class of station		Earth station in EESS	TW
C10d2	Nature of service		Limited publ. corr.	CR
C10c2	Country			NOR
C10c1	Geographical coordinates. Long° N/S ' "			69°N 2' 60"
	Lat° E/W ' "			18°E 28' 48"
C10d3	Max isotropic gain [dB]			16,2
C10d4	Beamwidth [°]			25
C10d5a1	Co-polar radiation pattern		Rec.580-6	606
Tx Beam UHFTX				
B2	Rx/Tx beam			Tx
B1a	Beam designation			UHFTX
B1b	Steerable beam			No
B3a1	Max isotropic gain [dBi]			0
B4a1	Orbit link, orbit id			1
B4a2	Orbit link, satellite id			0
B3c1	Co-polar radiation pattern id			609
B2bis a	Tx only when visible		Yes/No	Yes
B2bis b	Minimum elevation angle [°]			0
Group 9 UHFTX				
Characteristics common to a group of frequencies				
C4a	Class of station		Space operation	ET
C4b	Nature of service		Limited public corr	CR
C6	Polarisation		Circular	CR
C8d1	Max total peak power [dBW]			3,0
C11a	Service area		Norway	NOR
General characteristics				
A2b	Period of validity [years]			20
A3a	Operating agency		Info attached	9999
A3b	Responsible administration			A Nkom
Emissions				
C7a	Designation of emission			28K8G1D
C8a1	Maximum peak power [dBW]			3,0
C8a2	Maximum power density [dBW/Hz]			-41,6
C8c1	Minimum peak power [dBW]			0,5
C8c2	Minimum power density [dBW/Hz]			-47,6
C8e1	C/N [dB]			57
C9a1	Type of modulation			PSK
C7b	Carrier frequencies [MHz]			400,74 MHz
Frequencies				
C1	Frequency range	From To		400,7256 MHz 400,7544 MHz
Associated earth station				
C10b2	Type of station		Typical/Specific	T
C10b1	Associated earth station name			ORBEX1

C10d1	Class of station	Earth station in space-op	TT
C10d2	Nature of service	Limited publ. corr.	CR
C10c2	Country		NOR
C10c1	Geographical coordinates. Long° N/S ' " Lat° E/W ' "		69°N 2' 60" 18°E 28' 48"
C10d3	Max isotropic gain [dB]		16.8
C10d4	Beamwidth [°]		40
C10d6	Receiversystem noise temperature [°]		303
C10d5a1	Co-polar radiation pattern	Rec.580-6	605
Tx Beam SBANDTX			
B2	Rx/Tx beam		Tx
B1a	Beam designation		SBANDTX
B1b	Steerable beam		No
B3a1	Max isotropic gain [dBi]		5
B4a1	Orbit link, orbit id		1
B4a2	Orbit link, satellite id		0
B3c1	Co-polar radiation pattern id		609
B2bis a	Tx only when visible	Yes/No	Yes
B2bis b	Minimum elevation angle [°]		0
Group 10 SBANDTX			
Characteristics common to a group of frequencies			
C4a	Class of station	Space op.	ET
C4b	Nature of service	Limited public corr	CR
C6	Polarisation	Circular	CR
C8d1	Max total peak power [dBW]		3,0
C11a	Service area	Visible earth	XAA
General characteristics			
A2b	Period of validity [years]		20
A3a	Operating agency	Info attached	9999
A3b	Responsible administration		A Nkom
Emissions			
C7a	Designation of emission		2M80G1D
C8a1	Maximum peak power [dBW]		3
C8a2	Maximum power density [dBW/Hz]		-58
C8c1	Minimum peak power [dBW]		-3
C8c2	Minimum power density [dBW/Hz]		-64
C8e1	C/N [dB]		80
C9a1	Type of modulation		PSK
C7b	Carrier frequencies [MHz]		2235
Frequencies			
C1	Frequency range From To		2233,6 MHz 2236,4 MHz
Associated earth station			
C10b2	Type of station	Typical/Specific	T
C10b1	Associated earth station name		ORBOPEX
C10d1	Class of station	Space operation	TT
C10d2	Nature of service	Limited publ. corr.	CR
C10d3	Max isotropic gain [dB]		40
C10d4	Beamwidth [°]		1,6
C10d6	Receiversystem noise temperature [°]		150
C10d5a1	Co-polar radiation pattern	Rec. 580-6	605