TELESPACE

Satellite Ground Stations From EEC

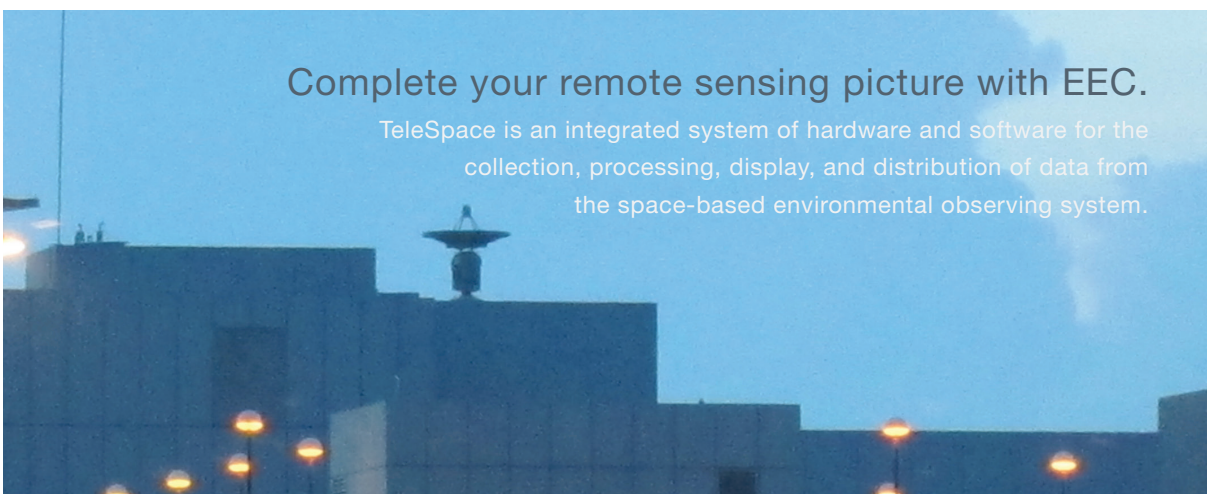
OBERON

XLE

XLE EOS Direct broadcast polar-orbiting satellite reception ground stations

REMOTE SENSING

POWERED BY EEC EECWEATHERTECH.COM

OBERON-XLE PERFORMANCE SPECIFICATIONS

ANTENNA:			
Reflector	2.4m, solid spun aluminum		
F/D	0.36		
Feed	X-Band prime focus scalar with L-Band on axis feed		
X-BAND:			
X-Band Operating Frequency	7700 MHz	thru	8500 MHz
Reflector 3 dB Beamwidth	1.05°		0.97°
Reflector Gain	43.5 dB		44.2 dB
*G/T Minimum With System Noise Temp <100 K	23.5 dB/K		24.2 dB/K
*G/T Typical Performance	24.0 dB/K		24.6 dB/K
LNC Noise Temperature	<50 K		
LNC Overall Conversion Gain X to IF	60 dB typical		
Synthesized Downconverter Step Size	100 KHz		
Local Oscillator Temperature Stability	+ 5 ppm		
IF Output	140 MHz		
L-BAND:			
L-Band Operating Frequency	1682 MHz	thru	1710 MHz
Reflector 3 dB Beamwidth	4.9°		
Reflector Gain	30.0 dB		
*G/T Minimum With System Noise Temp <120 K	10 dB/K		
*G/T Typical Performance	10 dB/K		
LNB Noise Temperature	90 K (preselected)		
LNB Conversion Gain	60 dB typical		
Local Oscillator Frequency (Block Downconverter)	100 KHz		
Local Oscillator Temperature Stability	+ 2.5ppm		
IF Output	140 MHz		
DEMODULATOR:			
Form Factor	1 U rack-mounted		
Input Frequency	Software selectable: 1250 ± 200 MHz, 720 ± 100 MHz, 140 ± 15 MHz		
Demodulator Modes	BPSK, QPSK, SQPSK		
M&C Interface	10/100/1000 BASE-T Ethernet		
Data Interface	10/100/1000 BASE-T Ethernet		
RF Test Port	SMA (Female), 50 Ω