

**TIGRIS Ex C-Band ODU SPECIFICATION SUMMARY**

All parameters guaranteed -40 to +55 deg C.

SPEC ITEM	MIN	TYP	MAX	UNITS
Transmit Frequency Range Extended C_Band	5.85		6.425	GHz
Transmit Frequency Range India Band	6.725		7.025	GHz
Transmit Frequency Accuracy (locked to HUB)	-0.01	0	0.01	ppm
2Watt Unit Max Output Power	31.5	33.0	34.5	dBm
Output Power Control Range	-	-	12	dB
Transmit Frequency Flatness In any 1MHz band (IN RADIO)	-0.1	0	+0.1	dB
Occupied Bandwidth MSK 128Kbps (99% energy)	390	395	400	KHz
Occupied Bandwidth OQPSK 128Kbps (99% energy)	270	275	280	KHz
Transmit Phase Noise Mask			1KHz <-69 10KHz <-69 100KHz <-81 128KHz <-82 550KHz <-83 1MHz <-87 >10MHz <-122	dBc/Hz
Cross Polarization	35			dB
TX Port Interface		N-Type		
RX port interface		F-Type		
Receive Frequency Range Extended C_Band	3.625		4.2	GHz
Receive Frequency Range India Band	4.5		4.8	GHz
Receive IF Extended C_Band	950	1200	1525	MHz
Receive IF India Band	1150	1300	1450	MHz
LNB Noise Temperature	-	50	65	Deg K
Total Receive Gain RF to IF	67	74.5	82	dB
Receive LO Stability	-2	0	+2	MHz
Receive Frequency Flatness IN RADIO, LNB unspecified	-2	0	+2	MHz
Receive Phase Noise Mask			1KHz <-60 dBc/Hz 10KHz <-75 dBc/Hz 100KHz <-90 dBc/Hz 600KHz <-110 dBc/Hz 1MHz <-110 dBc/Hz	
2W Unit Power Supply Voltage Limited by LNB	14		18	V
2W Unit Current Requirement (including 300mA to LNB)	-	-	2.5 (at 14 v)	A
2W Unit sleep current	-	-	600	mA