Microwave ODU

Advantage Series

Features

- 6-26GHz frequency bands available
- Fully synthesized design
- 3.5-56MHz RF channel bandwidths
- Supports QPSK and 16 to 256 QAM
- Standard and high power options
- High MTBF, greater than 92.000 hours
- Software controlled ODU functions
- Designed to meet FCC, ETSI and CE safety and emission standards
- Supports popular ITU-R standards and frequency recommendations
- Software configurable microcontroller for ODU monitor and control settings
- Low noise figure, low phase noise and high linearity
- Compact and lightweight design
- Very high frequency stability +/-2.5 ppm
- Wide operating temperature range: -40°C to +65°C

Product Description

The Advantage series are available in three different models to meet your specific ODU requirements.

Advantage P
The Advantage P model is designed to be a very effective ODU solution. The product is ideal for PDH applications utilizing modulation schemes; QPSK, and 16 to 32 QAM. Frequencies available from 6-26GHz, with RF channel bandwidths up to 30MHz. High standard transmit power level up to +27dBm for certain frequency bands.

Advantage SP
The Advantage SP model uses highly advanced ODU technology. The product is designed for PDH, SDH and wireless broadband applications, utilizing modulation schemes; QPSK, and 16 to 256QAM, frequencies available from 6-26GHz, and RF channel bandwidths up to 56MHz. High standard transmit power levels with up to +27dBm for certain frequency bands.

Advantage SP+
The Advantage SP+ model uses the same highly advanced ODU technology as the Wavelab SP, plus an extended performance capability. Extended transmit power levels up to +30dBm for certain frequency bands.

- *Advantage SP and SP+ series ODUs have up to 30 MHz RF channel bandwidth on standard models. Both are available in wideband option; programmable channel BW filtering.*
- *Fine synthesizer step option; 125KHz step size available on some models.*

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Technical Specifications

Frequency Band		6GHz	7/8GHz	10/11GHz	13GHz	15GHz	18GHz	23GHz	26GHz
Frequency Range	GHz	5.925-7.110	7.125-7.725 7.90-8.50	10.70-11.70	12.75-13.25	14.40-15.40	17.70-19.70	21.20-23.60	24.20-26.50
Transmit									
Std. P1dB Output Power	dBm	30	29	28	28	28	25.5	25.5	25
Std. Pwr Out @ Antenna Port	dBm	27	26	25	25	25	22.5	22.5	22
TX Power Change Step Size	dB	1							
Receive									
RF Input Power Range	dBm	-90 to -20							
Max Overload Level	dBm	>-10							
Channel Bandwidth	MHz	3.5/30 standard. Switchable BPF 40/56MHz optional.							
Synthesizer Step Size	KHz	250 (except for 8GHz TR311.32 and 6GHz TR252.04). 125KHz optional.							
Max Receiver Noise Figure (dB)@ RSL=-65dBm to -85dBm		6.5	6.5	6.5	6.5	6.5	6.5	7.0	7.0
IF Specifications									
IF Center Frequency	MHz	350 transmit, 140 receive, or others							
TX IF Power	dBm	+5 to -22							
RX IF Output Power	dBm	-10 to +2/-4							
Telemetry Interface									
Telemetry Input/Output		ASK full-duplex							
Input Signal Level	mVpp	100-250							
Input Carrier Frequency	MHz	5.5							
Input/Output Data Rate (max)	kbps	19.2							
Primary Power									
Voltage Range	VDC	-20 to -60							
Power Dissipation	Watts	25 typical, 35 maximum							
Temperature									
Ambient Operating Range	°C	-33 to +55							
Storage Range	°C	-55 to +95							
Humidity		100%							
Physical Parameters									
Weights	Ibs	≤8.0	≤9.5						
Dimensions	inches	9.7x6.9x3.0	10.9x9.4x3.6						
Antenna Interface		N type or direct mount	Direct mount						

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