RMI - P ULTRA

Microwave System

ULTRA microwave system is a low-cost point to point FDD/PDH digital microwave radio system for E1/T1 payload.

RMI - P ULTRA support capacities up to 24 E1 / T1 lines and Ethernet full duplex capacity up to 50 Mbps.

RMI - P ULTRA operates in a multiple frequency range, from UHF to 38GHz. It is available in non-protected (1+0) and protected (1+1) mode in HSB, MHSB, frequency diversity (FD), and space diversity (SD). It is also configurable for repeater, 2+0 or East/ West and ring operation. It can be mounted directly on an antenna by using our snap-on mount, or it can be mounted separately and connected by using a standard UBR flange series wavequide.

RMI - P ULTRA meets carrier-grade standards for high performance, reliability, and quality.

Features and Benefits:

- Wide range of frequency bands
- 4, 6, 8, 12, 16 or 24 E1/T1 with built-in Ethernet interface
- 2*10/100BaseT fast Ethernet port
- Adjustable E1 number and Ethernet throughput by software
- Adjustable capacity by software
- Support 1+0, 1+1, 2+0, East/West applications (with ADM capability) Cross connect function in ring or repeater
- applications E3 or V.35 Option
- VOW by VoIP function
- Low latency Ethernet up to 50Mbps
- Protection capability field upgradeable by plug-in
- Capacity and PDH/Ethernet field upgradeable by

- RF, analog, digital loopback capability
- Built-in BER monitor
- Delay setting for hitless (errorless) switching
- Wide operating temperature range
- Wide DC power input range and low power consumption
- SNMP network management protocol
- Up to 300 meters separation between IDU and ODU
- Small and attractive profile



Frequency			3.5GHz	5.8GHz	7/8GHz	11 GHz	13 GHz	15 GHz	18 GHz	23 GHz	*26 GHz	*38 GHz
Standard		ETSI, FCC or Customer specified										
RF Power (SP) (dBm)			0~+27	0 ~ +20	-10 ~ +27	-10 ~ +20	-10 ~ +20	-10 ~ +20	-10 ~ +19	-10 ~ +19	-10 ~ +19	-10 ~ +19
RF Power (HP) (dBm)			0 ~ +30	0 ~ +27	-10 ~ +27	-10 ~ +23	-10 ~ +23	-10 ~ +23	-10 ~ +23	-10 ~ +23	-10 ~ +23	-10 ~ +23
Accuracy			+/-2dB									
Increments			1dB									
RX at BER=10 ⁻³ (dBm)	QCPSK	4E1	-89	-87	-89	-88	-86	-87	-86.5	-87	-87	-85.5
		8E1	-86	-84	-86	-85	-84	-84	-83.5	-84	-84	-82.5
		16E1	-83	-80	-83	-82	-80	-80	-80.5	-81	-81	-79.2
	8CPSK	6E1	-86	-86	-86	-85	-85	-85	-84.5	-84	-84	-82.5
		12E1	-83	-83	-83	-82	-82	-82	-81.5	-81	-81	-79.5
		24E1	-80	-80	-80	-79	-79	-79	-78.5	-78	-78	-76.2
RX at BER=10 ⁻⁶ (dBm)	QCPSK	4E1	-86	-84	-86	-85	-83	-84	-84.5	-84	-84	-82.5
		8E1	-83	-81	-83	-82	-80	-81	-81.5	-81	-81	-79.5
		16E1	-80	-77	-80	-79	-76	-77	-78.5	-78	-78	-76.2
	8CPSK	6E1	-83	-83	-83	-82	-82	-82	-81.5	-81	-81	-79.5
		12E1	-80	-80	-80	-79	-79	-79	-78.5	-78	-78	-76.5
		24E1	-77	-77	-77	-76	-76	-76	-75.5	-75	-75	-73.2
RF BW (MHz)			7/14/28	7/14/28	7/14/28	7/14/28	7/14/28	7/14/28	7/13.75 /27.5	7/14 /27.5	7/14/28	7/14/28
Flange			N-type	N-type	UBR84	UBR100	UBR140	UBR140	UBR220	UBR220	UBR220	UBR320
Max. Power Consumption IDU+ODU (1+0/1+1)			25/40W(SP) 30/45W(HP)									
						- 1-	(0011)					
				Un	iveral	Kadio	(טטט)					
Frequency		3 5GHz	5.8GHz	7/8GHz	11	13	15	18	23	*26	*38	

Univeral Radio (ODU)												
Fraguengs		3.5GHz	5.8GHz	7/8GHz	11	13	15	18	23	*26	*38	
Frequency					GHz	GHz	GHz	GHz	GHz	GHz	GHz	
Standard			ETSI, FCC or Customer specified									
RF Power (SP) (dBm)			0~+27	0 ~	-10 ~	-10 ~	-10 ~	-10 ~	-10 ~	-10 ~	-10 ~	-10 ~
				+20	+27	+20	+20	+20	+19	+19	+19	+19
RF Power (HP) (dBm)			0 ~	0 ~	-10 ~	-10 ~	-10 ~	-10 ~	-10 ~	-10 ~	-10 ~	-10 ~
			+30	+27	+27	+23	+23	+23	+23	+23	+23	+23
Accuracy			+/-2dB									
Increments			1dB									
RX at BER=10 ⁻³ (dBm)	QCPSK	4E1	-89	-87	-89	-88	-86	-87	-86.5	-87	-87	-85.5
		8E1	-86	-84	-86	-85	-84	-84	-83.5	-84	-84	-82.5
		16E1	-83	-80	-83	-82	-80	-80	-80.5	-81	-81	-79.2
	8CPSK	6E1	-86	-86	-86	-85	-85	-85	-84.5	-84	-84	-82.5
		12E1	-83	-83	-83	-82	-82	-82	-81.5	-81	-81	-79.5
		24E1	-80	-80	-80	-79	-79	-79	-78.5	-78	-78	-76.2
RX at BER=10 ⁻⁶ (dBm)	QCPSK	4E1	-86	-84	-86	-85	-83	-84	-84.5	-84	-84	-82.5
		8E1	-83	-81	-83	-82	-80	-81	-81.5	-81	-81	-79.5
		16E1	-80	-77	-80	-79	-76	-77	-78.5	-78	-78	-76.2
	8CPSK	6E1	-83	-83	-83	-82	-82	-82	-81.5	-81	-81	-79.5
		12E1	-80	-80	-80	-79	-79	-79	-78.5	-78	-78	-76.5
		24E1	-77	-77	-77	-76	-76	-76	-75.5	-75	-75	-73.2
RF BW (MHz)			7/14/28	7/14/28	7/14/28	7/14/28	7/14/28	7/14/28	7/13.75 /27.5	7/14 /27.5	7/14/28	7/14/28
Flange			N-type	N-type	UBR84	UBR100	UBR140	UBR140	UBR220	UBR220	UBR220	UBR320
Max. Power Consumption IDU+ODU (1+0/1+1)		25/40W(SP) 30/45W(HP)										