

PDH DMR



MicroLink digital microwave radios is the best solution for Telco, ISP and Corporate. It is widely recognized and used in various countries. The Microlink series Digital Microwave Radio is an Enhanced flagship product in the point-to-point PDH market, which provides a high degree of value proposition and configuration flexibility, ideal for rapid installation in a modern communications network.

Benefits

Exceptional high Link performance and reliability in extreme conditions Less installation and maintenance cost with quick, simple plug-and-play installation Easy to configure and high product flexibility Lowest lifetime cost of ownership Excellent performance-price ratio

Features

2E1, 4E1, 8E1, 16 E1,E3 and 10/100BaseT Ethernet transmission, selectable traffic capacity

Software scalable and can be configured either locally or remotely

Same Base Unit supports different service cards, i.e. E3,4E1,8E1,16E1,32E1 1/2E1+Fast Ethernet Service card type can be identified by Base Unit Full range of configurations and frequency bands M&C via LCD or NMS Digital Modulator and Demodulator, Forward-Error-Correction (FEC)

Automatic Transmit Power Control (ATPC) Integrated WEB Server

SNMP(NMI) Option available

Low power consumption

Protection Option available

Application

Mobile backhaul , PTT access ,Trunking networks Local access networks, Enterprise / campus networks

Specification

Radio	Microlink
Frequency Source Systems	Synthesizer
Configurations	Non-Protected (1+0), 1+1 hot standby system Space and frequency diversity
RF Channel Selection	RF Channel Selection
Modulation Type Digital	QPSK
Line Code Digital I/O	HDB3forE1 and E3
Connectors	E1 75 Ω unbalanced DB-37/120Q balanced RJ-48C E3 75 Ω unbalanced BNC 10/100BASE-T 100a balanced RJ45
Receiver Type	Dual Conversion
Intermediate Frequency	310MHz/70MHz
Unfaded BER	10 ⁻¹¹ or better
Loopbacks	Port Loopback, Frame Loopback, IDU IF Loopback, Remote Line Loopback.
Alarm inputs	4 photo-couplers
Relay Outputs	Five Form "C" Relays
MTBF	180,000Hours
Frequency	7/8GHZ, 13GHZ, 15GHZ
Capacities & RF Channel	7MHz/4E1, 14MHz/8E1, 28MHz/16E1 1/2/4E1+Fast Ethernet
Transmitter	
Output Power	13/15GHZ: 20/23dBm 7/8GHZ: 25dBm
Frequency Stability	± 5 ppm
Attenuation Range	20dB
Receiver	
Noise Figure	<4.0dB
Overload	-20dBm
Receiver Sensitivity (1x10 ⁻⁶ BER)	-87dBm/4E1 -84dBm/8E1 -81dBm/16E1
Mechanical	
Dimension	IDU: 482x44x266 ODU: 256 X 256 x 53
Weight	IDU: 3.5kgODU: 5.5kg
IDU-ODU Interconnection	Single Cable, RG-8 Type, 50H unbalanced Recommended Cable: Belden 9913 Maximum Distance: Up to 1000 Ft. (300 m) ODU Connector Type: "N" Male IDU Connector Type: "TNC" Male
Environmental	
Temperature Range	IDU: -10~+45°C ODU: -33~+55°C
Relative Humidity	IDU: 5%~95% ODU: 0%~100%
Service Channels	
Digital Data Channel 1	Configure 1: BitRate: 0-9600bps Protocol: RS232C Interface: RJ45 Configure 2: BitRate: 64kbps Protocol: RS232C Interface: RJ45
Digital Data Channel 2	BitRate: 64kbps Protocol: RS232C Interface: RJ45
Engineering Order Wire	Frequency Response: 300-3400 Hz Impedance: 600 Ω balanced Interface RJ-11
NMS Data Channel 1	BitRate: 9600bps Protocol: RS232C Interface: RJ45
NMS Data Channel 2	BitRate: 10Mbps Protocol: 10BASE-T Interface: RJ45
Power Supply	
Standard Input	-40VDC to -60VDC
Consumption	IDU 8WattsODU 15Watts