



# AirLink™ 64-128 kbps

**Extended S-Band 2.300 – 2.400 GHz Digital Microwave Radio**



## General Description

The AirLink™ digital microwave radio provides solutions for voice and data applications between two locations up to 30 miles (50 km) apart. This technology delivers very low bit error rate links that have high immunity to interference. A pair of AirLink radios with line-of-sight access creates a robust, wireless link using spread-spectrum microwave transmission.

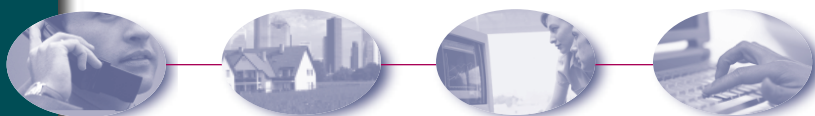
These links are ideal for public and private networks. Applications include Wireless Local Loop (WLL), Wide Area Networking (WAN), and Metropolitan Area Networking (MAN). High-performance links are ideal for frame relay applications and last-mile feeders into optical and satellite networks.

## Features

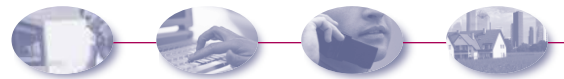
- Simple switch settings reduce technician time and lower installation costs
- Hub 100 links to one tower, serves more subscribers
- Range up to 30 miles (50 km), reaches more destinations without a repeater
- 3-year warranty

## Option

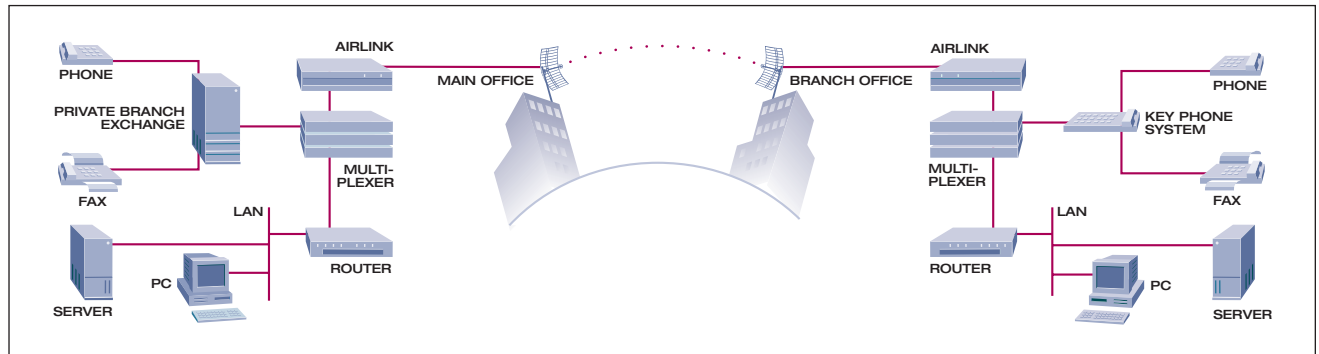
- Ruggedized weatherproof packaging



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## Point-to-Point Applications



AirLink digital microwave radio interconnecting a Multiplexer pair.

## Model Specifications

Model	Data Rate		Transmit Bandwidth (MHz)	Receiver Sensitivity** (dBm@10 <sup>-6</sup> BER)	Number of Channels
	Async Settings* (kbps)	Sync Settings (kbps)			
64XSMP (Multipoint)	19.2	64, 56, 19.2 9.6, 4.8, 2.4, 1.2	3.84	-95*	24
128XS	32	128, 112	3.84	-90	24

\* Error correction improves stated receiver sensitivity by 3 dBm in multipoint model at low data rates.

\*\*Channel spacing is 4.0 MHz; plan is compliant with ITU-R F746-2.

## Radio Specifications

<b>Frequency</b>	2.300-2.400 GHz
<b>Spreading Method</b>	Direct sequence, 8 codes
<b>Transmit Output Power</b>	650 mW (28 dBm)
<b>Antenna</b>	24 dBi Semi-parabolic 15 dBi Yagi 8 dBi Omni-directional

## Power (continued)

Approvals	CSA, UL, VDE, IEC
Dimensions	2.0 H x 3.4 W x 5.9 D inches (50 H x 90 W x 150 D mm)
Weight	1.3 lbs. (0.6 kg)
DC Power Supply	(External, optional) Available for 12, 24 and 48 VDC

## Environmental

<b>Operating Temperature</b>	0° to 50° C (32° to 122° F)
<b>Humidity</b>	Up to 95% non-condensing

## System Specifications

<b>Data</b>	
Interfaces	V.11/V.35
Bit Error Rate	Better than 10 <sup>-10</sup> unfaded
Error Correction	19 kbps and under
<b>Power</b>	
AC Power Supply	(External, supplied standard)
Input	100-250 VAC @ 50/60 Hz, 23W

## Rear Connectors

Connectors	All female type
Power	5-pin DIN
DTE V.11/V.35	34-pin Winchester
Antenna	N type
Burst Synchronization	BNC

## Controls and Indicators

Connectors	Rear panel DIP switches
Indicators	Sync, power LEDs

## Size and Weight

<b>Dimensions</b>	2.2 H x 8.5 W x 10.5 D inches (55 H x 215 W x 265 D mm)
<b>Weight</b>	4.7 lbs (2.1 kg)

## Certifications and Regulatory

Country-by-country  
For U.S. export only

## Warranty

Includes a standard 3-year warranty



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