

Narrowband Digital Radios

MDR-5000 Series

The field-proven MDR-5000 family of digital radios offers users capacities of 4, 8, or 12 DS1s. Available in multiple frequency bands, these radios offer several new alternatives to narrowband users. They also use advanced modulation techniques such as 64 and 256 QAM to achieve unsurpassed spectral efficiency. In addition to pioneering this technology, Alcatel has over 6,000 T/Rs currently in service, continuously demonstrating our track record for dependable performance and reliability.

This family was the first to provide the ability to upgrade to a higher capacity while in service, with no outage on a protected system. By allowing you to buy only the capacity needed without the risk of obsolescence due to unforeseen traffic growth, the MDR-5000 protects your microwave investment.

These radios are ideal for tying cell sites and cellular switches together in either backbone routes or spur applications.

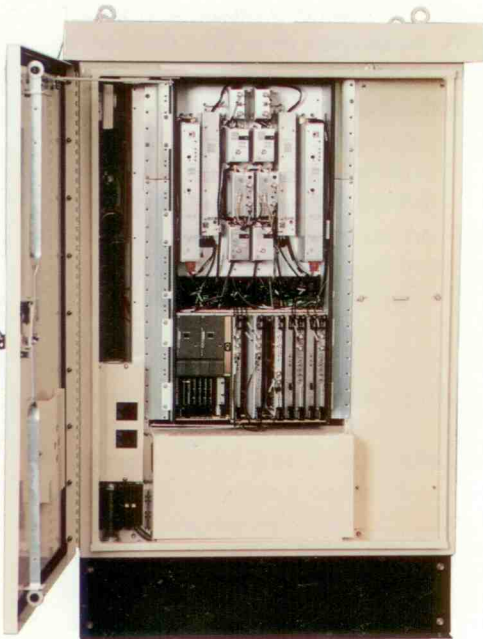
Also available is the Digital Support System for controlling and diagnosing the radio network, as well as reducing maintenance costs. When operated in conjunction with our MCS-11 Operations Support System, extensive in-service performance information provides the operator with data on path performance. Remote control functions such as DS1 loopback give the operator the ability to check the quality of DS1 signals throughout the network.

An additional part of the Digital Support System is a dedicated maintenance channel that provides on-site maintenance personnel with the

ability to monitor the status of that site (through the use of a laptop terminal), as well as the performance information from adjacent sites to assist in isolating problems.

Features

- Multiple frequency bands: 2, 6, 7, and 8 GHz
- Capacities of 4, 8, and 12 DS1s
- In-service capacity upgrades
- Unsurpassed frequency coordination characteristics
- Industry-high dispersive fade margin
- 6-tap time domain equalizer
- Forward error correction
- Automatic power control
- Errorless receiver switching



TYPE	FREQUENCY BAND (GHz)	CAPACITY (DS1s)	RF BANDWIDTH (MHz)
MDR-5102	1.7-2.3	12	3.5
MDR-5202	1.7-2.5	8	3.2
MDR-5302	1.7-2.5	4	1.6
MDR-5402	1.7-2.5	12	5.0
MDR-5106	5.9-7.125	12	5.0
MDR-5206	5.9-7.125	8	3.2
MDR-5306	5.9-7.125	4	1.6
MDR-5107	7.125-7.73	12	5.0
MDR-5207	7.125-7.73	8	3.2
MDR-5307	7.125-7.73	4	1.6
MDR-5108	7.714-8.5	12	5.0
MDR-5208	7.714-8.5	8	3.2
MDR-5308	7.714-8.5	4	1.6