

Digital Microwave Radio

7100 series

The Codan Digital Microwave Radio (DMR) 7100 series is a compact and low-cost unit ideal for rapid installation in short, medium and long haul point-to-point links in terrestrial communications networks.

The 7100 provides a full duplex 2 Mbit/s (E1) link which is fully compliant with the ITU-T G.703 standard. The radio is available in the 7.5 and 10.5 GHz RF bands, and uses FM modulation of the RF signal to provide reliable and low-cost communication.

FEATURES

- low-cost to use
- high performance
- direct mount
- ease of deployment
- nontechnical installation
- lightweight construction
- easy maintenance
- IP66 rating
- 3 year warranty

The terminal comprises of a single lightweight outdoor unit (ODU) mounted directly to the antenna. All other interfacing is through a single cable, which plugs onto the outside of the unit.

The RF modules are frequency synthesised, allowing short delivery times and channel selection in the field by the user. The system operates from a -24 V to -48 V DC supply.

A full range of antenna sizes guarantees high availability performance over the most demanding paths.

Installation

The 7100 is directly mounted to the antenna. Alternatively, indirect mounting can be achieved with a simple pole mounting kit and connection made to the antenna by flexible waveguide, which can be

purchased from Codan as an option, or sourced locally. A single multicore cable connects the 7100 to the station equipment and DC supply.

Commissioning of the link with a voltmeter is fast and easy. It can be completed by testing the signal strength.

Environment

The Codan 7100 is designed and tested to meet all of its performance specifications in an ambient temperature range of -20°C to +50°C and up to 100% relative humidity, thus ensuring long-term operation in all-weather environments.

OPTIONS AND ACCESSORIES

- Antennas, coaxial cable and transition
- AC supply
- Multicore cable (data interface and DC power)
- Cold redundancy system
- High power amplifier
- Extended temperature

Frequency bands of operation

Model	Frequency bands (GHZ)
7110	10.500 to 10.680
7107	7.425 to 7.680 7.425 to 7.900



Typical installation of 7700 Outdoor Unit



Digital Microwave Radio 7100 series

Equipment descriptions and specifications are subject to change without notice or obligation

Head Office	www.codan.com.au	12-20107 Issue 4: 12/03
<p>Codan Limited ABN 77 007 590 605 81 Graves Street Newton SA 5074 AUSTRALIA Telephone +61 8 8305 0311 Facsimile +61 8 8305 0411 asiasales@codan.com.au</p>	<p>Codan Limited ABN 77 007 590 605 105 Factory Road Oxley Qld 4075 AUSTRALIA Telephone +61 7 3716 6333 Facsimile +61 7 3716 6350</p>	<p>Codan (UK) Ltd Gostrey House Union Road Farnham Surrey GU9 7PT UNITED KINGDOM Telephone +44 1252 717 272 Facsimile +44 1252 717 337 uksales@codan.com.au</p>
		<p>Codan US, Inc. 10660 Wakeman Court Manassas VA 20110 USA Telephone +1 703 361 2721 Facsimile +1 703 361 3812 ussales@codan.com.au</p>

