

## CFM L4 Digital Microwave Radio Unit



L4 Digital Microwave Radio Unit is designed for operation at a fixed bit rate of 4 Mbps and is operating over 5, 7, 8, 10, 11, 13, 15, 18, 23, 26, 32 and 38 GHz frequency bands. L4 is a low cost modification of universal CFM LM series radio and is appropriate for low capacity economical applications.

The radio is characterized by ease of installation thanks to radio lightweight and compact design, it provides many features making it a perfect building block for any network:

- full bandwidth coverage with the single radio in 5, 7, 8, 10, 11, 13, 15, 18, 23, 26, 32 and 38 GHz;
- Wide tuning range of Tx signal level (from -10 dBm to +27 dBm) making the radio suitable for short, midrange and long link installations;
- Wide choice of Indoor Units offering fine tuned combinations of capacity and interface combinations for specific applications. IDUs are providing E1, V.35 and 10, 10/100 Ethernet ports.
- convenient and efficient management system provided through multiple interfaces of the Indoor Unit, LCD display/keypad, RS-232 terminal port, Ethernet port.

- Radio is offered with comprehensive choice of adapted antennas: Lens-Horn - 25 cm, and parabolic - 30, 60, 120, 180, 240 and 300 cm. All antennas provide capability to mount the radio directly on antenna without any accessories.
- The change of radio capacity is performed via easy and convenient change of capacity/interface specific Indoor Units.

A calibrated AGC monitoring point is included on the Outdoor Unit for connection of multimeter during antenna alignment. The ODU unit is well protected by its metal case and weather-EMC sealing thus providing basis for reliable operation under any weather conditions.

CFM L4 radio is designed in compliance with ETSI/ITU-R standards. CFM L4 radio is CE marked.



[Management System](#)



|                                     |  |
|-------------------------------------|--|
| Maximum input power at antenna port | 0 dBm  |
| Polarization                        | vertical or horizontal, field selectable   |
| Mounting options                    | direct or via flexible waveguide   |
| <b>ELECTRICAL</b>                   |  |
| Power supply                        | 20 to 60V DC any polarity can be grounded  |
| Power consumption                   | from 8 to 19W  |
| Protection circuit                  | 1.35A  |
| Cable (IDU-ODU): single coaxial     | up to 300 m long LMR 400 or<br>up to 100 long RG-213, N-type connectors/ up to 20 dB attenuation @ 350 MHz |
| <b>ENVIRONMENTAL</b>                |  |
| Ambient temperature                 | -33 °C to +55 °C   |
| Altitude                            | in accordance with climatic standards  |
| Humidity                            | from 15% to 100%   |
| <b>MECHANICAL</b>                   |  |
| Mechanical parameters mm/weight kg  | 280 x 85 mm / 2.5  |
| <b>STANDARDS</b>                    |  |
| Standard compliance                 | ITU, ETSI  |
| EMC                                 | EN 301 489   |
| Operational                         | EN 300 019, Class 4.1  |
| Storage                             | EN 300 019, Class 1.2  |
| Transportation                      | EN 300 019, Class 2.3  |
| Safety                              | EN 60950   |

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