

CFM LM Universal Digital Microwave Radio Unit



LM Universal Radio Unit is designed for operation at fixed bit rates of 8, 16 or 34 Mbps and is operating over 7, 8, 13, 15, 18, 23, 26, 32 and 38 GHz frequency bands. 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 (600MHz);
- 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 LM radio is designed in compliance with ETSI/ITU-R standards. CFM LM radio is CE marked.



[Management System](#)



Antenna gain (dBi)	0.25 m	-	-	-	-	-	-	-	32	34	-	-	-
	0.30 m	-	-	-	-	-	29.2	32.2	32.9	35	35.9	38.4	39.3
	0.60 m	-	30.2	30.9	34.6	34.6	36	36.9	38.3	39.9	41	43.5	44.3
	1.20 m	32.6/33	36.5	37	40.1	40.1	42	43	44.3	45.9	46.8	-	-
	1.80 m	36.6	40.7	41.2	-	-	45.2	46.2	48.1	49.5	-	-	-
	2.40 m	-	43.1	43.6	-	-	47.3	49.5	-	-	-	-	-
	3.00 m	-	45.1	45.6	-	-	-	-	-	-	-	-	-
Maximum input power at antenna port	0 dBm												
Polarization	vertical or horizontal, field selectable												
Mounting options	direct or via flexible waveguide												
ELECTRICAL													
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 up to 100 long RG-213, N-type connectors/ up to 20 dB attenuation @ 350 MHz												
ENVIRONMENTAL													
Ambient temperature	-33 °C to +55 °C												
Altitude	in accordance with climatic standards												
Humidity	from 15% to 100%												
MECHANICAL													
Mechanical parameters mm/weight kg	280 x 85 mm / 2.5												
STANDARDS													
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												