

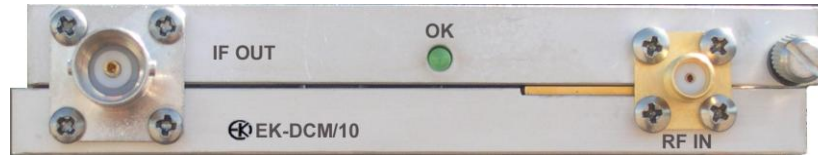
TECHNICAL SPECIFICATION

Model (EK-UCM/x)	19	2	4L	4H	4	5	59	6	7	8	10	11	12	13	14
Freq. band (GHz)	1.98 - 2.1	2.3 - 2.7	3.2 - 3.8	3.9 - 4.4	4.4 - 4.9	5.2 - 5.4	5.9 - 6.4	6.4 - 7.2	7.0 - 8.0	8.0 - 8.5	10.0 - 10.7	10.7 - 11.7	11.7 - 12.5	12.7 - 13.3	14.2 - 14.5
Output power (dBm) QPSK*	t.b.d	t.b.d	24	24	24	25.5	27	27	27	27	27	27	27	27	27
Output power (dBm) 16QAM*	t.b.d	t.b.d	21	21	21	22.5	24	24	24	24	24	24	24	24	24
Output power (dBm) 32QAM*	t.b.d	t.b.d	21	21	21	22.5	24	24	24	24	24	24	24	24	24
Output power (dBm) 64QAM*	t.b.d	t.b.d	21	21	21	22.5	24	24	24	24	24	24	24	24	24
Output power (dBm) 128QAM*	t.b.d	t.b.d	21	21	21	22.5	24	24	24	24	24	24	24	24	24
Output power (dBm) 256QAM*	t.b.d	t.b.d	21	21	21	22.5	24	24	24	24	24	24	24	24	24
ALC dynamic range (dBm)	t.b.d	t.b.d	24/21	24/21	24/21	22.5/ 22.5	27/24	27/24	27/24	27/24	27/24	27/24	27/24	27/24	27/24
Freq step	100 KHz														
MGC dynamic range	30 dB														
Monitor port	-30 dB +/- 5 dB														
IF inputs	1 internal, 1 rear BNC (remotely switchable)														

* Output power excluding branching filter (necessary)

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BOARD PLUG-IN EK-DCM/X "DOWN-CONVERTER" FREQ. 2÷14 GHz



The board EK-DCM/x constitutes the downconversion part of the new Radio Link series properly studied for the transmission of digital signals.

It has been realised using a lot of technologies for the synthesis of frequency, with the result to have a programmability with steps of 100 KHz on all the band without the necessity to resetting ever with a phase noise and a spectrum purity with excellent quality.

The two conversions of frequency allow the board utilisation with branching filter either band filters, keeping however excellent characteristics of sensibility, selectivity and dynamic range.

The reading of received power is between -20 to -100 dBm, peculiar characteristic is the possibility to select different bandwidth of the filter IF in order to improve the services for the Symbol Rate chosen.

The system modularity allows an easy substitution, however all the parameters are memorised inside the mainframe so it isn't necessary to have specific knowledge to substitute the board.

All the working parameters are reachable from the Mainframe front panel and from remote.

Features

- From 2 GHz to 14 GHz Band
- Completely agile (100 KHz step)
- Double conversion
- Complete web management

Applications

- Digital Microwave Links
- DTV, DVB-T, DVB-S
- Transceiver mode

