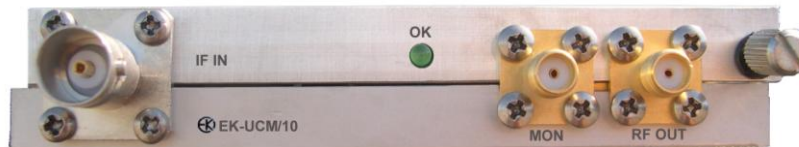


BOARD PLUG-IN EK-UCM/X "UP-CONVERTER" FREQ. 2÷14 GHz



The board EK-UCM/x constitutes the up conversion part and power amplifier 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.

The two conversions of frequency allow the board utilisation with branching filter either band filters, keeping however excellent characteristics of harmonic and clean emission.

It is possible to control the gain of the board related to the power read on further power amplifier, or the detector inside allows to have a constant output power independently from the variation of input power, aspect extremely important in case of constellation that could arrive to 256QAM.

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
- ALC Function
- Complete web management

Applications

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



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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