MB1 DUC/DDC HF/6M/VHF STANDALONE SDR TRANSCEIVER

4188

WWW.EESDR.COM Software Defined Radio

The MB1 transceiver represents a new generation of ham radio. It's an up-to-date DUC/DDC direct conversion transceiver and a full blown PC in one box. All the hardware you need for your schack is found in one single ergonomic device. The MB1 is made for the true amateur radio aficionado, it's a modern Software Defined Radio with the physical touch and feel of a classic radio. MB1 is a high performance radio!

RF ADC clock frequency, MHz	160
RF ADC resolution, bit	16
Receiving frequencies bandwidth, MHz0.09-65	, 95-148
Amount of independent receive channels	2
Blocking Dynamic Range (BDR), dB	129
Maximum output power in HF, W	100
Maximum output power in VHF, W	50
Frequency coverage in VHF in TX mode, MHz	144-148
Frequency coverage in HF in TX mode, MHzAll amateur fre	quencies

DAC clock frequency, MHz	640
RF DAC resolution, bit	14
Dynamic Range over IMD3, dB	
MDS level, dBm	128
Local oscillator's stability, ppm	+/- 0.5
Operating Temperature, °C	0 - +50
Power voltage range, V, Hz~10	0-240,50-60
Dimensions, mm3	20x140x250
Weight, kg	10



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Features:

- Independent receiver with Direct Down Conversion (DDC)
- Separate independent transmitter with Digital Up Conversion (DUC)
- Install digital modes software
- Contest loggers and other contest software
- Embedded suboctave band pass filters
- Opportunity to connect VHF transverters
- Opportunity to connect transceiver to LAN or WLAN Internet
- Opportunity to connect external display, mouse and keyboard
- Full blown computer inside is based on Intel Core i5 CPU
- Frequency synchronization from 10 MHz reference oscillator
- Automatic Tuner Unit for HF band: Available as option
- Four programmable PTT outputs for independent external PA control
- COM port for connecting external devices (power amplifiers, rotators, external PC, etc.)
- Work with internet browser, internet clusters and other opportunities (e-mail, Skype, Media, etc.)
- Two independent channels with bandwidth up to 312 kHz and two sub-receivers in each channel
- Remote control. PTT foot switch and CW keyer are connected to E-Coder SDR-control panel
- Connecting two CW Skimmers to two independent receiving channels on different bands
- Very small delay in CW mode (about 10 ms)
- Opportunity to use transceiver in SO2R mode
- Antenna switch for four HF antennas

And many other opportunities limited only by your fantasy. All that inside one MB1 transceiver!

TRONICS



Block diagram



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