

DAR-4000H

Model Description: DAR-4000H is a DMB Digital On-Channel Repeater (DOCR) based on Eureka-147 DAB system for single frequency network. In cooperation with KBS Technical Research Institute, DARBS applies Maximal Ratio Combining (MRC), a multiple antenna receiving technique, to terrestrial repeaters for the first time in this industry to minimize MER degradation and to secure more stable DMB signal relay.

Information

- MRC function: MER Reduction $< 0.1\text{dB}$
- ICS range: $> 30\text{dBc}$
- Adjacent-channel selectivity: $> 33\text{dBc}$
- In-band flatness: 28dB (p-p)
- Adaptive pre-corrector: Compensation of linear and nonlinear predistortion
- Wireless remote control: CDMA

Performance

- Output Power : Max 200W for Ensemble
- System Gain : 115dB
- RF Input Range : $-70 \sim -15\text{dBm}$ Max
- ICS Range : $> 30\text{dBc}$
- System Delay : $40\mu\text{s}$ Max
- VSWR : 1.2 Max
- Spectrum Mask : In critical mask (ETS300401)
- Carrier Stability : $< \pm 0.05\text{ppm}$
- In-band Flatness : 2dB (p-p)
- In/Out Frequency Difference : 0Hz
- Adjacent-channel Selectivity : $> 33\text{dBc}$
- MER Reduction Rate : $< 0.1\text{dB}$

General

- RF Frequency : VHF 7A ~ 13C
- RF In/Output Impedance : $50\Omega\text{m}$
- Main Power Consumption : 1.2kW Max
- Dimensions (mm) : 600 (W) X 2000 (H) x 900 (D)
- Operating Humidity : 85%
- Operating Temperature : $-10^\circ\text{C} \sim +45^\circ\text{C}$
- Power Supply Voltage : $\text{AC } 220\text{V} \pm 10\%, 50/60\text{Hz}$



DAR-4000H Standard Configuration

