

ISDB-T XS5000 Exciter Specifications



Signal Inputs

- TS Inputs: 2 Transport Stream with loop out, DVB-ASI or TSoIP (BTS Option for ISDB-TB) 188 or 204 Bytes - Conn: BNC female 75 Ω
- Sat Input: DVB-S/S2 (Optional)
- RF Input: Freq: VHF or UHF Bandwidth: 6 MHz Connector: BNC female 50 Ω Level: -85 dBm ~ -15 dBm AWGN TOV: ≤ 16 dB (A/53 operation) Equalization Range (-1 μ s ~ 0 μ s): ≤ -2 dB Equalization Range (0 μ s ~ 17 μ s): ≤ -3 dB Adjacent Channel Rejection ($N \pm 1$): > 30 dB

Signal Processing

- Bandwidth: 6 MHz
- Supported Mode: ATSC & ISDB-TB Versions
- Network Mode: MFN & SFN (Opt. for ISDB-TB)
- Local Mux, Remux (Option for ISDB-TB)
- BTS Decompressor (Option for ISDB-TB)

RF Output

- Connector (RF Out): N-Type female 50 Ω
- Frequency: VHF/UHF in steps of 1 Hz, spectrum shifting up to ± 50 KHz
- Level: -25 dBm ~ +5 dBm in steps of 0.05 dB
- Level Stability: $< \pm 0.1$ dB
- Frequency Stability: $< 0.5 \times 10^{-7}$ (with onboard 10MHz REF), or in accordance with the Ext. GPS accuracy
- Symbol Rate: 10.762238 MHz
- MER: > 40 dB
- Amplitude Flatness: $< \pm 0.5$ dB
- IMD Shoulder Level (± 500 kHz): < -60 dB
- Out of Band Spurious: < -60 dB
- Pilot Amplitude Error: $< \pm 0.1$ dB
- Return Loss: > 15 dB
- Phase Noise (@20 kHz): < -107 dBc/Hz

Reference Clock (GP)

Internal 10MHz

- Frequency Stability: $< \pm 0.05$ ppm
- Aging: $< \pm 0.05$ ppm/year
- Output level: 0 dBm ± 3 dB

External 10MHz

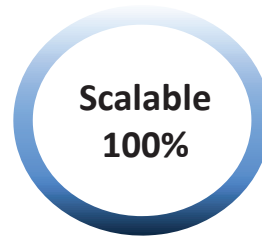
- Input Level: AC coupled V (p-p) > 300 mV
- Input Conn: BNC female 50 Ω External 1PPS
- Input Level & Conn: TTL - BNC female 50 Ω
- Internal GPS Receiver - Optional

Linear and Non-linear ADPC™

- Dual Feedback Signal: BNC female 50 Ω
- Feedback level: -35 dBm ~ 0 dBm (suggested value: -15 dBm ~ -5 dBm)
- Correction is Adaptive and Automatic: No additional instruments or manual operations needed
- Continuous measurement and display of SNR and IMD
- Correction of amplitude, phase and group delay
- Up to 10 dB of MER improvement
- Up to 15 dB of shoulder improvement
- In-band flatness: $< \pm 0.5$ dB

Other

- Power Supply: 88 ~ 264 VAC, 50/60Hz
- Operating Temperature: 0° C ~ 50° C (+32°F~+122°F)
- Operating Humidity: $\leq 95\%$
- Size: 1 RU, 19" Wide



www.anywavecom.net



Anywave Communication Technologies
Address: 300 Knightsbridge Parkway, Suite 150,
Lincolnshire, IL 60069-3655
Website: www.anywavecom.net

Represente no Brasil: PHASE Engenharia Ind. e Com. Ltda.

Av. Olegário Maciel 231, Lojas 101 a 105 - Barra da Tijuca, CEP 22 621 200, Rio de Janeiro, RJ. Tel +55.21.2493.0125
Av. Ibirapuera 2.907, Conj. B306 & 7 - Ed. Conv. Corp. Plaza – Torre C, Indianópolis, CEP 04029-200, São Paulo-SP – Tel +55 11 3589-0125
phase@phase.com.br - www.phase.com.br

