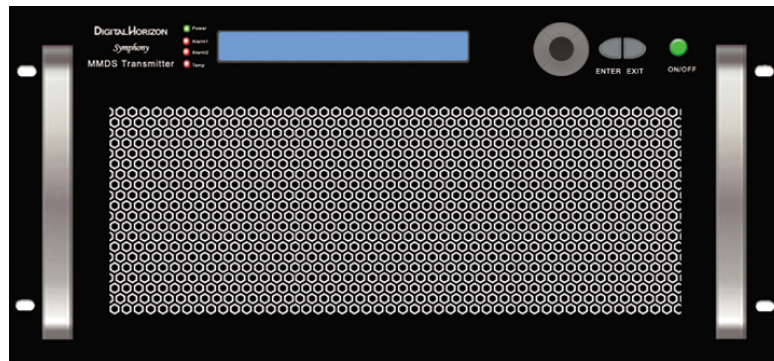


Digital MMDS Transmitter

Model: Symphony-5W/10W/20W/50W



Main Feature:

- Solid State GaAs FET Technology Broadband Amplifier
- Ultra Linear and Lower Power Design
- Low Phase Noise for Digital QAM and COFDM Application
- Digital Power Range: 5W,10W,20W,50W
- Output Protected against Open Circuit, Damage by Excessive VSWR
- High Accuracy Internal Clock Reference and External Clock Input
- Modular Design to Ease Installation, Upgrade and Maintenance
- Powerful Fan Air Cooling at Rear of Transmitter
- Reliable Power Supply
- Support Manual and Automatic Redundancy
- Built-in Automatic Self-diagnostic Circuitry for Immediate Identification of Faults
- Local and Remote System Configuration and Supervision

Digital MMDS Transmitter

Symphony-5W/10W/20W/50W



Technical Specification

IF Input:

- Input frequency range: VHF~UHF
- Input signal Level: -17dBm
- Input Return Loss: >15dB
- Input connector: 75Ω F/N-Female

RF Output:

- Frequency Range: 200MHz in 2100MHz to 2900MHz
- Frequency Stability: +/- 500Hz
- Flatness over 200MHz bandwidth: 1dB
- Flatness over 8MHz bandwidth: 0.3dB
- Output Powers: 2W,5W,10W,20W,50W
- Output power stability: 1dB
- Harmonic level: <-60 dBc
- Spurious Level: <-60dBc
- Output Return Loss: >19dB
- Output connector: 50Ω/N-type-Female

Local Oscillator(LO):

- LO frequency: 2033MHz typical, or user request
- LO frequency stability: ±500 Hz

System:

- Noise figure: 6.0dB(Typical)
- Vector Magnitude Error(EVM): 2%
- Signal over Noise Ratio @8MHz: 40dB
- AM-AM Linearity: 0.3dB
- AM-PM Linearity: 2 Degree
- Group delay: 30 ns

Control & Monitoring

- Local Front panel and LCD displayer
- Remote RS-232, DB-9 interface
- IP control ,RJ-45 interface

Physical Conditions:

- Cooling system: Forced air cooling
- Working temperature: -10~+45°C
- Working humidity: 10~75%
- Storage temperature: -55~+85°C
- Storage humidity: 0~90%

Power supply:

- AC 220V +/-10%
- Power Consumption: see table
- Dimension: see table

Output Power and Physical Dimension:

Model	Digital Power	Power Consumption	Dimension & Weight
Symphony-5W	37dBm	160W	600x485x175mm 17kg
Symphony-10W	40dBm	300W	600x485x175mm 22kg
Symphony-20W	43dBm	320W	600x485x175mm 22kg
Symphony-50W	47dBm	750W	Preamplifier: 600x485x175mm 17kg Backamplifier: 600x485x175mm 25kg

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