



Video and Television Engineering



## WiT Family of T Transmitters

### DVB-T Low Power Transmitter

- 470-862 MHz

### 0.5W, 5W, 10W, 20W

#### FEATURES

- Max Power 0.5W, 5W, 10W or 20W
- MFN and SFN complaint transmitter
- GPS Input - High quality internal clock ( $5 \times 10^{-9}$ , GPS locked  $7 \times 10^{-10}$ )
- 10MHz and 1PPS inputs
- Channel bandwidth, 5, 6, 7 or 8 MHz
- 220V AC single power supply
- Suitable for using solar panels
- 2x BNC ASI input connectors, 75Ω (redundancy-seamless switching)
- 1x N RF output connectors, 50Ω
- SMA power monitoring, 50Ω
- Chassis rack MNT 2U, 11" deep

- DB9 connector (7 inputs) for monitoring/alarming external equipment/devices
- SMS messages for internal and external alarming (requires GPRS/3G option)
- Configuration via LCD and web SNMP v.2
- 4 Ethernet Ports (switch)
- High performance MER
- Signal clipping (PAPR)
- Linear and non-linear precorrection
- Simple operation and installation
- 1 year warranty and swift support

#### OPTIONS:

- GPRS/3G (router) remote monitoring/alarm
- GPS receiver

#### ORDERING INFORMATION

| Type    | Description            |
|---------|------------------------|
| WiT-05  | 0.5W Transmitter       |
| WiT-5   | 5W Transmitter         |
| WiT-10  | 10W Transmitter        |
| WiT-20  | 20W Transmitter        |
| WIT-GPS | OPTION 1: GPS Receiver |
| WIT-3G  | OPTION 2: GPRS/3G      |

NAS-ETL Digital Overview S/N 101110, FW 2.30

Ch: --- RF 754.000000 MHz DVB-T/H 8 MHz

Att 40 dB  
ExpLvl 7.50 dBm

|                     | Pass   | Limit    | <      | Results            | <      | Limit           | Unit              |           |
|---------------------|--------|----------|--------|--------------------|--------|-----------------|-------------------|-----------|
| Level               |        | -60.0    |        | 9.8                |        | 10.0            | dBm               |           |
| Constellation       |        |          |        | 64 QAM NH / normal |        |                 |                   |           |
| MER (rms)           |        | 24.0     |        | 41.0               |        | -----           | dB                |           |
| MER (peak)          |        | 10.0     |        | 29.0               |        | -----           | dB                |           |
| EVM (rms)           |        | -----    |        | 0.59               |        | 4.40            | %                 |           |
| EVM (peak)          |        | -----    |        | 2.31               |        | 22.00           | %                 |           |
| BER before Viterbi  |        |          |        | 0.0e-9(461/1K00)   |        | 1.0e-2          |                   |           |
| BER before RS       |        |          |        | 0.0e-9(283/1K00)   |        | 2.0e-4          |                   |           |
| BER after RS        |        |          |        | 0.0e-8(188/1K00)   |        | 1.0e-10         |                   |           |
| Packet Error Ratio  |        |          |        | 0.0e-6(188/1K00)   |        | 1.0e-8          |                   |           |
| Packet Errors       |        |          |        | 0                  |        | 1               | /s                |           |
| Carrier Freq Offset |        | -30000.0 |        | -38.2              |        | 30000.0         | Hz                |           |
| Bit Rate Offset     |        | -100.0   |        | -0.1               |        | 100.0           | ppm               |           |
| MPEG Ts Bitrate     |        |          |        | 19.905881          |        |                 | MBit/s            |           |
| 64 QAM NH (64NH)    |        |          |        | FFT 8k (8k)        |        | GI 1/4 (1/4)    | 2/3,2/3 (2/3,2/3) | Cell ID 0 |
| TPS Res.            |        | 0,0,0,0  |        | INT N (N)          |        | MPE FEC Off/Off | Time Sl. Off/Off  | LI 17     |
| Lvl                 | 9.8dBm | BER      | 0.0e-9 | MER                | 41.0dB | DEM0D           | MPEG              |           |

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