

UT-164 4-Way Diversity USB DVB-T Receiver Dongle



UT-164 - Features

- USB Receiver Dongle, with integrated 4-way diversity demodulator support for EN 300-744 DVB-T reception.
- **Flexible and wide range channel bandwidth support, 1/1.5/2/2.5/3/4/5/6/7/8 MHz**
- **High monitoring capabilities (Received signal level, MER, C/N, channel profile, BER, MPEG quality, TPS change tracking, remaining adjacent channels power after digital filter)**
- **Superior sensitivity with dual tuner antenna diversity technology for mobile reception with Doppler enhancement.**
- Standard Windows DVB-T BDA driver provided
- Windows Media Center compatible DVB-T TV tuner
- Linux V4L driver support

Host Requirements

- CPU: Intel, AMD, ARM, MIPS
- 128MB RAM of system memory or above
- Higher CPU and memory required if DVB-T audio/video decoding is needed
- One available USB2.0 or 1.1 port
Note: USB 1.1 can only support 3~5 Mbps stream data rate.

HiDES Easy HD Expressway!

Parameter	Value			
RF connector	Two 50-Ω SMA (female) connectors, for standard TV band 170MHz~862 MHz			
Bandwidth	Single Antenna or 2-Way Diversity (ant-1 & 3)	1/1.5/2/2.5/3/4/5/6/7/8 MHz		
	4-Way Diversity Antenna	2.5/3/4/5/6/7/8 MHz		
FFT	2K, 4K, 8K			
Constellation	64QAM/16QAM/QPSK			
Code rate	1/2, 2/3, 3/4, 5/6, 7/8			
Guard interval	1/4, 1/8, 1/16 or 1/32			
Frequency range	170~862MHz			
RF Performance (Single Antenna only)	Pmax	>+5 dBm		
	Pmin @ FFT:2K, 16QAM, CR:2/3 GI:1/8	Bandwidth	Sensitivity	
		1 MHz	<-99 dBm	
		1.5 MHz	<-98 dBm	
		2 MHz	<-96 dBm	
		2.5 MHz	<-95 dBm	
		3 MHz	<-95 dBm	
		4 MHz	<-94 dBm	
		5 MHz	<-92 dBm	
		6 MHz	<-91 dBm	
		7 MHz	<-90 dBm	
8 MHz	<-90 dBm			
Mobility Performance RF Level=-50dBm,530MHz 8MHz, C/N=OFF Average Packet Error Rate < 5x10 ⁻³	2K 16QAM R3/4,GI=1/4: 300KM/H 8K 16QAM R2/3,GI=1/4:120KM/H 8K 64QAM R2/3,GI=1/4:80 KM/H			

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<p>Mobility TU6/RA6/Doppler Performance</p>	<p>Results</p> <p>Typical Urban Reception (TU6) Results</p> <p>The following results are the Doppler Frequency to achieve the point of failure of 1 picture artefact or error in a 20 second time period.</p> <table border="1"> <thead> <tr> <th>Modulation Mode</th> <th>typ</th> </tr> </thead> <tbody> <tr> <td>8K 64QAM, FEC 1/2 and Guard Band 1/8</td> <td>45Hz</td> </tr> <tr> <td>8K 64QAM, FEC 2/3 and Guard Band 1/8</td> <td>26Hz</td> </tr> <tr> <td>2K 64QAM, FEC 2/3 and Guard Band 1/32</td> <td>128Hz</td> </tr> <tr> <td>2K 16QAM, FEC 3/4 and Guard Band 1/32</td> <td>195Hz</td> </tr> </tbody> </table> <p>Rural Area Reception (RA6) Results</p> <p>The following results are the Doppler Frequency to achieve the point of failure of 1 picture artefact or error in a 20 second time period.</p> <table border="1"> <thead> <tr> <th>Modulation Mode</th> <th>typ</th> </tr> </thead> <tbody> <tr> <td>8K 64QAM, FEC 1/2 and Guard Band 1/8</td> <td>30Hz</td> </tr> <tr> <td>8K 64QAM, FEC 2/3 and Guard Band 1/8</td> <td>20Hz</td> </tr> <tr> <td>2K 64QAM, FEC 2/3 and Guard Band 1/32</td> <td>86Hz</td> </tr> <tr> <td>2K 16QAM, FEC 3/4 and Guard Band 1/32</td> <td>119Hz</td> </tr> </tbody> </table> <p>0dB Echo With Doppler Reception (0dB) Results</p> <p>The following results are the Doppler Frequency to achieve the point of failure of 1 picture artefact or error in a 20 second time period.</p> <table border="1"> <thead> <tr> <th>Modulation Mode</th> <th>typ</th> </tr> </thead> <tbody> <tr> <td>8K 64QAM, FEC 1/2 and Guard Band 1/8</td> <td>50Hz</td> </tr> <tr> <td>8K 64QAM, FEC 2/3 and Guard Band 1/8</td> <td>43Hz</td> </tr> <tr> <td>2K 64QAM, FEC 2/3 and Guard Band 1/32</td> <td>160Hz</td> </tr> <tr> <td>2K 16QAM, FEC 3/4 and Guard Band 1/32</td> <td>233Hz</td> </tr> </tbody> </table>	Modulation Mode	typ	8K 64QAM, FEC 1/2 and Guard Band 1/8	45Hz	8K 64QAM, FEC 2/3 and Guard Band 1/8	26Hz	2K 64QAM, FEC 2/3 and Guard Band 1/32	128Hz	2K 16QAM, FEC 3/4 and Guard Band 1/32	195Hz	Modulation Mode	typ	8K 64QAM, FEC 1/2 and Guard Band 1/8	30Hz	8K 64QAM, FEC 2/3 and Guard Band 1/8	20Hz	2K 64QAM, FEC 2/3 and Guard Band 1/32	86Hz	2K 16QAM, FEC 3/4 and Guard Band 1/32	119Hz	Modulation Mode	typ	8K 64QAM, FEC 1/2 and Guard Band 1/8	50Hz	8K 64QAM, FEC 2/3 and Guard Band 1/8	43Hz	2K 64QAM, FEC 2/3 and Guard Band 1/32	160Hz	2K 16QAM, FEC 3/4 and Guard Band 1/32	233Hz
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<p>Power</p>	<p>5V DC, USB bus power, 400mA</p>																														
<p>Dimensions</p>	<p>Bare bone 58x96mm</p>																														