



Amitec Wireless Communication System WCT24

Amitec Model WCT24 has been developed for Bharati school IIT Delhi for application of study of WLAN and BLUETOOTH RF systems. Several such systems are in use already. Audio signal, voice, video can be sent simultaneously at Transmitter and reproduced at Receiver. External broadband digital or analog data can be used for link testing. Serial data can be transferred from one computer to another via wireless link. A 500 MHz Spectrum Analyzer is optionally provided for signal analysis of Downconverted signal. A variety of antennas at 2.4 GHz band are provided for study. One transmitter and one receiver, offered as standard, can setup unidirectional link. However, two transmitter and two receivers are required for bidirectional link for testing co-channel interference, point to multipoint link analysis, diversity reception etc.

Amitec WCT24 Features:

- * PLL Synthesized source and receiver
- * Microwave receiver and transmitter
- * Protocol based PC to PC wireless data link
- * Transmission of audio, video, data
- * Attenuation, C/N, S/N, fading measurement
- * Polarization, space, frequency diversity
- * Duplex mode using two pair of equipments

Amitec WCT24 Technical Specifications

Frequency Transmitter & receiver	:	2.25 to 2.68 GHz PLL Synthesized Transmitter usable from 1.9 to 2.68 GHz Receiver usable from 2.25 to 2.8 GHz
Step Size	:	0.125, 0.25, 0.5, 1, 10 MHz
Accuracy	:	10KHz
Display	:	16X2 LCD Backlit Display
Tx RF Out	:	10dBm approx typical
Attenuator	:	0-30dB variable
Impedance	:	75 Ohms
Rx Sensitivity	:	-85dBm approx typical
Attenuator	:	0-20dB approx variable
Impedance	:	75 Ohms
Downconverter	:	479.5 MHz
Channels	:	2 audio channels and 1 video/data channel
Antennas	:	Patch, LHCP Helix, RHCP Helix, Yagi, Conical horn, Log periodic, Parabolic reflector, Log Spiral
Accessories	:	Mounting Stand-2, camera, monitor

Suggested related equipments:

- : Antenna training Lab ATS20
- : Antenna Analyser ATS10
- : Microwave Antenna Training System MAT10
- : Satellite Communication Lab STC24
- : MIC Analyser MIC10
- : Scalar Network Analyser SNA05
- : Microwave Frequency Counter FCM10
- : Microwave Power Meter MPM20
- : Noise Generator NAG30

E-Manual: Installation DVD for ease of Learning

Specifications are subject to change due to constant innovation in technology. Accessories shown are not part of standard equipment.

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