

Features:

- * 7 channels 5.8 GHz PLL synthesized Transceiver
- * 20 dB Emulation of path loss.
- * Received signal strength measurement
- * Emulation of frequency translation
- * High RF output power and low noise
- * Condenser microphone and speaker for audio link
- * All Gold plated SMA connectors & Silver Teflon Cables
- * Transmit Multiple Digital data channels etc.

Amitec WCT58 Technical Specifications

Transceiver X 2 Nos.

Frequency	:	7 channels in 5.8 GHz band ; PLL with frequency selection switch & LED indication
Spurious output	:	- 30 dB typical
Impedance	:	50 Ohms Unbalanced SMA
Sensitivity	:	-80dBm
RF output level	:	+10 dBm nominal
Path Loss	:	20dB
RSSI Out	:	Received signal strength output for C/N measurement
Audio Channel	:	Int. 1KHz sine wave / Ext Mic with Speaker inbuilt
Digital Channels	:	Multiple
Antenna	:	Detachable Parabolic dish with mount, 2 X 2 Patch Array, Conical Horn, RHCP Helix, LHCP Helix, Log Spiral, Yagi
Inputs	:	separate terminals for different inputs
Power Supply	:	100-240V AC 47-63Hz

Dimension : 55X34X36 cms. Weight : 12 Kg

E-Manual: Installation Video for ease of Learning



Area and Scope of Experimentation:

- * To set up a wireless communication link.
- * To measure the baseband analog signal parameters in a satellite link.
- * To study the phenomenon of Linear polarization.
- * To measure the C/N ratio.
- * To measure the S/N ratio.
- * To study the effect of fading and measure the fading margin of a received signal.
- * To measure the digital baseband signal parameters in a wireless communication link.
- * To measure BER in a wireless communication link.
- * To set up a Bidirectional PC-PC wireless communication link.
- * To measure Space, Polarization & Frequency Diversity.
- * To setup wireless communication link in Simplex, half Duplex and Full Duplex mode.

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