Digital 608-614 MHz WMTS Telemetry Receiver

The digital telemetry receiver module houses from one to eight individual digital telemetry receivers for the telemetry system, and two receiver modules can be utilized simultaneously resulting in up to 16 individual digital telemetry channels being available at any given time. The standard antenna provided is ¼ wave table top ground plane antenna, however, signal amplifiers or alternate configurations are provided with the antenna system when required to assure acceptable signal levels at the receiver module based on specific installation criteria.

The antenna is coupled to the receivers by an amplifier/eight channel splitter. The receivers are digital and can operate on any channel within the 608-614 MHz WMTS band. Digital signals received by the antenna are processed through the amplifier/splitter to the receiver. The resulting output of the receiver is a 9600 baud TTL serial data stream that is processed further by an Atmel 8 bit microcontroller utilizing embedded custom firmware. The processed data are sent to the onboard Zworld RCM3000 Rabbit single board computer device which is driven by embedded custom designed software to make ECG rhythm strip data available to the network for collection and display at the monitoring workstation.

Digital WMTS Receiver Base Technical Information

Type:	8 Channel, VHF
Manufacturer:	ScottCare
Model:	TR600-2 (608-614 MHz)
Size:	Approx. 10"Wx6"Dx4"H
Power:	9V DC, 0.3A max.
Power Supply:	120V AC to 9V DC UL Listed Plug-In Converter
Input:	50-Ohm RF Antenna, 608-614 MHz Band
Output:	8-1.1KHz FM Sub carrier ECG Signals via 9 pin D Connector
Controls:	None
Environmental	
Temperature:	10 to 40°C
Relative Humidity:	**10 to 90 %**

WMTS Telemetry Antenna

Type:	Amplified ceiling mounted
Size:	approx 9" diameter
Cable:	RG-11
Connector:	'F' connector
Mounting:	Ceiling mounted

Telemetry Antenna

Type:	VHF Base mounted Y wave whip
Size:	15"H, Base 3"Wx4"Dx1"H
Cable:	10' RG-58
Connector:	PL-259
Mounting:	Tabletop or Wall-Mount (bracket included)