

# WorldGSM™ RBTSi & VBTSi

## Energy Efficient Micro & Macro BTS for Rural Networks

### OVERVIEW

The WorldGSM™ RBTSi & VBTSi are a complete rural communication systems that are entirely solar powered, requires very low power per TRX (depending on configuration). They bolt on to a WorldGSM™ rural site and start transmitting in minutes. They support all GSM band options (850/900/1800 and 1900 MHz).

Telecom equipment for rural and remote areas must be able to cope with demanding weather conditions, lack of grid power, and limited or no access to skilled engineers.

The WorldGSM™ RBTSi & VBTSi are designed to operate outdoors in harsh environments. There's no need for a shelter, air conditioning, grid power, generator or diesel fuel. They can be installed and maintained by local workers.

#### **Fully-functional GSM has never been this simple.**

With the WorldGSM™ RBTSi & VBTSi, it is finally possible for mobile operators to reach rural markets profitably.

### BENEFITS

- Overcome challenges in remote deployments and hence helps extending telecom networks to remote areas
- Suited for areas with low population density
- Near zero opex, makes telecom services profitable even at low ARPU levels
- Can be 100% solar powered
- Provides micro/macro coverage
- Outdoor deployments
- Coverage and capacity on demand
- Optimized for satellite deployment
- Can be installed and maintained by an unskilled persons



### HIGHLIGHTS

- *Low power Consumption*
- *compact Form Factor, Easy to Transport and Install*
- *3GPP ETSI Compliant*
- *Auto Configuration- Plug and Play*
- *Supports 850/900/1800/1900 Bands*
- *Supports Local Switching*
- *Remote Management*
- *No Airconditioning Required*
- *No Movable Parts Like Fans*

# WorldGSM™ RBTSi & VBTSi

## SPECIFICATIONS

SYSTEM	RBTSi	VBTSi
Type	Outdoor	
Mounting	Pole, Wall or Tower	
Frequency Options	GSM 850/900/1800/1900 MHz	
Number of TRX	1/2	2
RF Output (at Antenna Port)	+40 dBm/10 Watts	+33 dBm/2 Watts
Receiver Sensitivity (Including/Excluding Diversity)	-114 / -111 dBm	
<b>BACKHAUL TRANSMISSION</b>		
Backhaul Options	IP, Microwave Links, Satellite	
<b>FEATURES</b>		
3GPP Compliance	Release 5 GSM	
GSM Service	Voice, SMS, GPRS, EGPRS	
Ciphering	A5/1, A5/3	
DTX/DRX	Yes	
External Antenna Port	2	
Frequency Hopping	Yes	
Antenna Diversity Support	Yes	
<b>CAPACITY</b>		
Voice Timeslots	14 / 15	
GPRS/EGPRS Timeslots	Configurable	
Ethernet Interfaces	1	
Ethernet Transmission	100 Base T	
<b>DIMENSIONS, WEIGHT &amp; POWER</b>		
Dimensions (HxWxD in mm) / Volume	583 x 393 x 145 / 6.6 m <sup>3</sup>	
Weight (Kg)	18	
Power Supply	-48 V (DC)	
Power Consumption – BTS only (Watts)	120 Typical	65 Typical
<b>ENVIRONMENT</b>		
Water and Dust Protection	IP 65	
Storage	ETS 300 019-1-1, Class 1.1	
Transportation	ETS 300 019-1-2, Class 2.3	
Operating Conditions	ETS 300 019-1-3, Class 3.3 ETS 300 019-1-4, Class 4.1	
Operating Temperature Range	-30° C to +55 °C	

## CORPORATE HEADQUARTERS