

WorldGSM™ PBTS-2i

WHEN SITE ACQUISITION IS
CHALLENGING AND REACH IS
IMPORTANT, THE CHOICE IS
PBTS-2i

- Small Size and Weight
- Simplified Site Acquisition
- Low Power Consumption
- Fast Network Rollout
- Reduced Site Related Costs



WorldGSM™ PBTS-2i

DETAILS

WORLD'S MOST ENERGY EFFICIENT BTS FOR INDOOR/OUTDOOR COVERAGE

The WorldGSM™ PBTS-2i can have both indoor and outdoor deployment, either as stand-alone base station or as driver of a distributed antenna system. The Base Station has a capacity and output power suitable for small offices or public areas. It requires as little as 33 watts of power per TRX (depending on configuration).

The small size and weight enables easy site acquisition and quick installation. It can be mounted hanging on a wall close to the ceiling or can be mounted on a pole. PBTS-2i is IP65-compliant, and rugged enough for outdoor use without needing shelters or air-conditioning. One technician can easily carry and install all modules, so the cost of installing PBTS-2i is also far lower.

With IP/Ethernet connectivity built in, PBTS-2i offers cost-effective, direct interfaces to hybrid and full-packet backhaul networks. And because these interfaces are integrated in the system, it is affordable software rather than costly hardware that charts a smooth evolutionary course towards IP/Ethernet transport.

Factoring a wide range of 3GPP features into your networking equation, PBTS-2i is ready for every evolutionary advance. And all it takes is nothing more complicated than a simple software upgrade.

WORLDGSM™ BENEFITS

- **Reduce OPEX and Dramatically low CAPEX**
Lowest power consumption, Self sustainable, Solar viable, Capacity on demand, Simple to deploy
- **Flexible Coverage and Capacity Solutions**
*Wide product range to suite rural and urban capacity requirements
Capacity distribution for flexible point of presence*
- **Fully Standard Compliant**
*Complies to 3GPP and IEEE specifications
Integrates with 3rd Party 3GPP complied nodes*
- **Compact and Highly Integrated**
*Smaller footprints, Faster time to market,
Fully managed components*
- **Single solution for Voice and Broadband**

HIGHLIGHTS

- *Lowest Power Consumption*
- *Flexible Configurations*
- *Capacity on Demand*
- *Coverage on Demand*
- *3GPP REL5 & ETSI Compliant*
- *Designed Specifically for Indoor/Outdoor Environment*
- *Auto Configuration - Plug & Play*
- *Near Zero Maintenance*
- *Small Form Factor*
- *No Moving Parts*

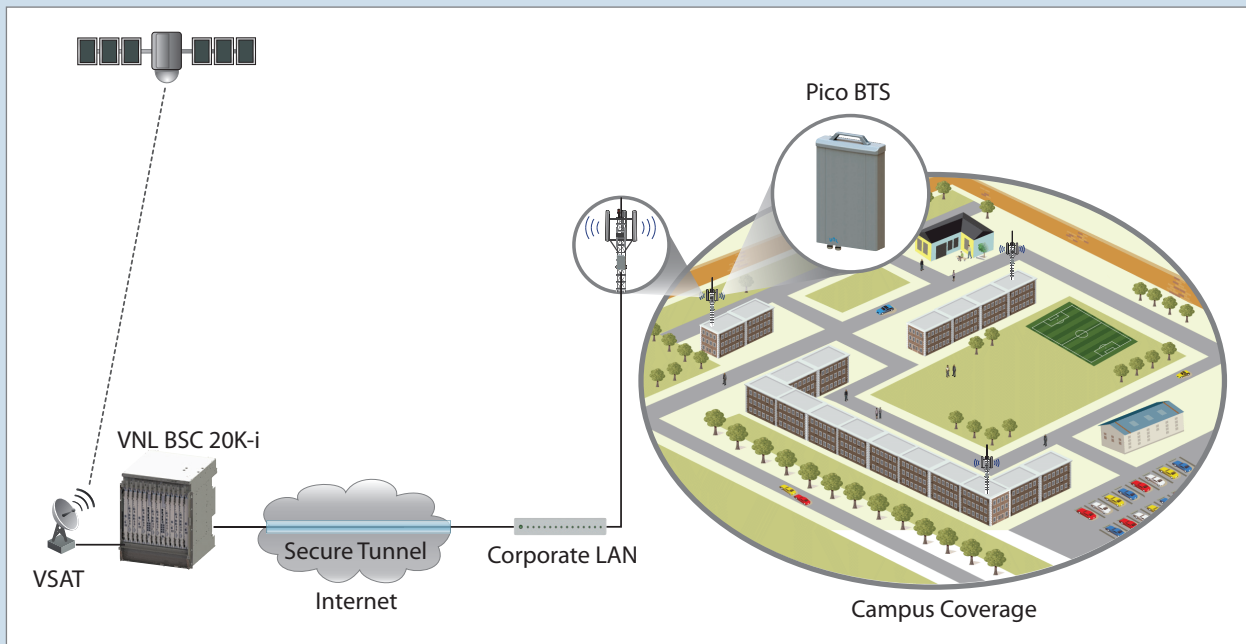
WorldGSM™ PBTS-2i

SPECIFICATIONS

SYSTEM	
Type	Indoor/Outdoor
Mounting	Pole, Wall or Tower
Frequency Options	GSM 850/900/1800/1900 MHz
Number of TRX	2
Number of Antenna Ports	2
RF Output at Antenna Port (GMSK/8PSK per Carrier)	23dBm at Each Antenna Port
Receiver Sensitivity (EFR/TU50 Excluding Diversity)	- 100 dBm for GSM850, GSM 900, DCS1800 PCS1900 (TBD)
Security	IPSec (Optional)
GPS Synchronization	Yes
BACKHAUL TRANSMISSION	
Backhaul Transmission	Backhaul over Fast/Gigabit Electrical/Optical Ethernet interface
FEATURES	
3GPP Compliance	Release 5, GSM
GSM Service	Voice, SMS, CBCH
Codecs	FR, EFR, AMR (HR/FR)
Data	GPRS (CS1- CS4) EGPRS (MCS1 -MCS9)
Downlink Receiver for Scanning	Yes
CAPACITY	
Voice Timeslots	14/15
INTERFACE	
Ethernet Interfaces	2 RJ-45
DIMENSIONS, WEIGHT & POWER	
Dimensions (WxHxD)	475 x 300 x 105 mm
Weight (Kg)	7
Power Supply	+24 V (DC)
Power Consumption – BTS Only (Watts)	65
ENVIRONMENT	
Water and Dust Protection	IP 65
Storage	ETSI EN 300 019-1-1, Class 1.1
Transportation	ETSI EN 300 019-1-2, Class 2.3
Operating Conditions	ETSI EN 300 019-1-3, Class 3.3 ETSI EN 300 019-1-4, Class 4.1
Operating Temperature Range	-30° to 55° C (-22° to 131° F)

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APPLICATION NOTES



Street Coverage Using PBTS-2i

ABOUT VNL

VNL makes WorldGSM™, a complete GSM solution that helps mobile operators reach rural markets profitably. It is completely solar powered and optimized for rural markets. For the first time, mobile operators can build profitable businesses serving low-ARPU users in rural and remote communities.

The microtelecom revolution is ready to begin and VNL is leading the charge.

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