

# ACS Wireless BTS

## GSM Base Transceiver Station

### Network Features

Features	Capacity/Standard
Number of TRX per Chassis	Up to three TRX cards
Number of Traffic Channels	Up to 22 traffic channels
<b>WAVExpress</b>	
Frequency Band	900 MHz GSM network, 1800MHz DCS network, 1900 MHz PCS network
Tx Power	2 watts
Receiver Sensivity	-107 dBm
<b>TurboWAVE Option</b>	
Frequency Band	900 MHz GSM network, 1800 MHz DCS network
Tx Power	8 watts supporting two TRX modules
Receiver Sensivity	-110dBm
GPRS	Hardware ready

### Configuration

Maximum Number of TRX's	3
Maximum Number of Trunk Ports	2
Traffic Channels	Up to 22
Transmission	Dual Port G.703 compliant E1 75/120 Ω Dual Port T1.403 compliant T1 100 Ω
Ethernet	IEEE802.3; 10 BaseT
Serial	DB9 male connector supporting DCE interface

### Electrical

Power Options	110/220 VAC50-60 Hz AC -48 VDC Optional redundant power supply
Power Consumption	4.10 Amperes @ 115 VAC <sup>1</sup> 2.00 Amperes @ 230 VAC <sup>1</sup> 8.20 Amperes @ 48 VDC <sup>1</sup>

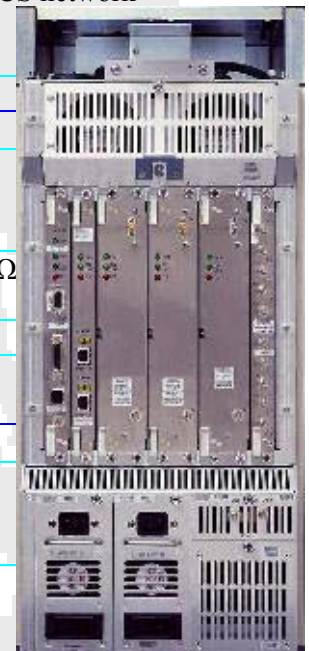
### Mechanical

Dimensions (HxWxD)	61 x 28 x 41 centimeters (24 x 11 x 16 inches)
Weight	20 kg (44 lbs)

### Environmental

Operating Environment	Temperature: -5 to 45°C Humidity: 10% to 90% (non-condensing)
Regulatory	GSM 900 & DCS 1800: CB Report; EN550022, IEC1000-4; PCS 1900: FCC Part 15 Class A, NTRL/C; Telecom; E1; 120 Ω CTR12/13: 75 Ω NTR-4/10/11; IEC 950; Part 6; FCC Part 15 & Part 68 and Industry Canada ICES-003 & CP-03

**Note:** 1. Standard Configuration of Three E1/T1 and Two TRX card



# **ACS Wireless BTS**

## **G S M Base Transceiver Station**

The ACS Wireless Base Transceiver Station (BTS) establishes the radio link between the mobile station and the Base Station Controller (BSC). The BTS is connected to the BSC via Abis links using E1 or T1 transport facilities. Multiple BTSs may be deployed in either a star or a daisy chain configuration from the BSC. The BTS chassis supports a processor, a dual port E1 or T1 trunk card, up to three transceivers (TRX), and connections for external antennas. The BTS can accommodate receive antenna diversity. The BTS assigns timeslots to the mobile station calculates timing advances required for proper mobile station communications, and collects uplink and downlink radio measurements. The radio measurements are used by the BTS to adjust mobile station Radio Frequency (RF) transmission and to coordinate mobile station handover between base transceiver stations. The basic BTS platform supports microcellular operation. Increased coverage for macrocellular operation is available by using the optional TurboWAVE RF Distribution card.



## **ACS Wireless**

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