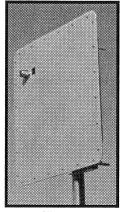
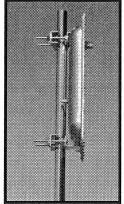
WaveCom BTR5857 is a low cost 5.7 to 5.8 GHz Base Station Outdoor Unit (ODU) for use with TRI5758 in broadband fixed wireless systems.

The BTR5857 cost and performance makes it ideal for both point-to-point and point-to-multipoint systems.

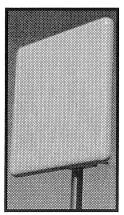
The BTR5857 combines a low noise downconverter, high power upconverter and high rejection duplexer to offer a quick and easy to install base station ODU for BWINTM BASED ON DOCSISTM.



Front (no antenna)



Side (no antenna)



Front (comes with integrated antenna)

Product Features:

- •Up to +15 dBm output power with 64QAM; +20 dBm with OPSK
- Digital temperature compensation - guarantees specifications over full operating temperature band
- High reliability, state-of-theart design using microstrip, MMIC and surface mount technology
- Can be used with an external antenna or an integrated antenna for point-to-point systems.



150 CARDINAL PLACE SASKATOON, SK, CANADA S7L 6H7 TEL: (306) 955-7075 FAX: (306) 955-9919

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br_btr5857_01 (Mar 2003)



SPECIFICATIONS

BTR5857

Base Station Transceiver

TRANSMIT SPECIFICATIONS

IF Input Frequency

Bandwidth

RF Output Frequency Range

Frequency Response (any 6 MHz band) Rated Output Power at Antenna Port

Spectral Mask

Phase Noise

516-540 MHz

one or more RF carriers (4 x 6 MHz) 5775-5799 MHz (Low Band Option) 5799-5823 MHz (High Band Option)

 $\pm 0.3 dB$

+15 dBm (64QAM); +20 dBm (QPSK)

Compliant with ETSI EN 301 021 v1.5.1, section 5.3.3,

system type D

<-85 dBc/Hz @ 10 KHz

RECIEVE

RF Input Frequency Range

Frequency Response (any 6 MHz band)
IF Output Frequency Range

Noise Figure at Antenna Port

Gain

Phase Noise

5727-5751 MHz (Low Band Option)

5751-5775 MHz (High Band Option)

±0.3 dB 18-42 MHz

<6 dB including duplexer loss

38 dB

<-85 dBc/Hz @ 10 KHz

GENERAL

Frequency Setting and Stability over Temperature Frequency Setting and Stability over 10 years

IF Connector RF Connector Return Loss

Power Requirement

Power Consumption

Operating Temperature Range

Antenna Beamwidth Antenna Compliance Spurious Emissions EMC Compliance

Mounting

Dimensions Weight ± 15 kHz ± 25 kHz

F female, 75 ohms N female, 50 ohms

10 dB

12 to 28 VDC (+21 V to +28 V nominal)

12W maximum

ETS 300 019 Class 4.1 (-30 to +40°C ambient) full specifications

ETS 300 019 Class 4.1E (-45 to +45°C ambient) operational

60°, 90°, Omnidirectional available

ETSI EN 302 085

ETSI EN 301 390, FCC Part 15, Industry Canada RSS-210

ETSI EN 300 385

Standard - Pole (1" to 1.75" (25mm to 44mm) diameter) with polarization , azimuth, elevation adjustment.

Optional - wall mount

12" x 12" x 2.5" (305 mm x 305 mm x 64 mm) maximum

5.5 lbs. (2.5 kg)

System Configurations

BTR5857-T5775_5799-R5727_5751

BTR5857-T5799_5823-R5751_5775

Outdoor 5.7 GHz Base Station Transceiver Low Band (Transmit: 5775-5799 MHz,

Receive: 5727-5751 MHz)

Outdoor 5.7 GHz Base Station Transceiver High Band (Transmit: 5799-5823 MHz,

Receive: 5751-5775 MHz)

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The DOCSISTM acronym belongs to CableLabs®

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