The TR700B circuitry is field hardened over a broad temperature



range and is contained in weather proof housing. The unit is ready to mount next to and connect directly to an antenna. The TR700B is then connected to an indoor modem by standard low cost RG-59 cable.

The transceiver is configured to work with standard DOCSIS<sup>TM</sup> cable modem frequency plans and levels, permitting direct connection. The transceiver also includes an RF mute function to reduce power consumption and broadband noise emissions.

# Features - Benefits

- High gain and compression
  - allows for high system gain for N-LOS
- Embedded microprocessor control
  - guarantees performance
- Unique VCom design
  - lowers cost without performance reduction
- Automatic transmit RF mute
  - reduces power consumption
  - eliminates noise accumulation
- Fully weatherized enclosure
  - allows installation to be either indoor or outdoor



Distributed by:

Specifications subject to change without notice — Printed in Canada br\_tr700b\_01 (Nov 2003) VCom Inc.

(formerly WaveCom Electronics Inc.) 150 Cardinal Place Saskatoon, Sk, Canada S7L 6H7 TEL: (306) 955-7075

> FAX: (306) 955-9919 Website: www.vcom.com E-mail: sales@vcom.com



## SPECIFICATIONS — VCom TR700B

## **700 MHz Subscriber Transceiver**

#### **TRANSMITTER**

IF Input Frequency RF Output Frequency Linear Output Power Output P1dB Spectral Mask

Gain

Gain Flatness (Frequency Response)

Phase Noise Spectral inversion IF Level for RF Activation

RF Activation/Mute Response Time

36 to 42 MHz 710 to 716 MHz +24 dBm at RF port +27 dBm at RF port

FCC CFR 47 Part 27.53 20 ± 2 dB at 23°C

± 1.0 dB over 710 to 716 MHz <-87 dBc/Hz @ +/- 10 kHz No spectral inversion -45 dBm maximum <2 microseconds

### RECIEVER

Frequency 740 to 746 MHz Gain 24  $\pm$  2 dB at 23°C

Gain Flatness (Frequency Response)  $\pm 1.0 \text{ dB over } 740 \text{ to } 746 \text{ MHz}$  Noise Figure < 5 dB typical, 6.0 dB maximum

### RF Port

RF Connector (to antenna)

RF Return Loss

RF Spurious Emissions

F female, 75 ohms

2:1 (transmit and receive RF bands)

FCC CFR 47 Part 27

#### **IF PORT**

IF Connector F female, 75 ohms

DC Supply Voltage +18 to +28 VDC (+24V nominal)

DC Power Consumption 10W maximum

IF Return Loss 2:1 (transmit and receive RF bands)

### GENERAL

Frequency Stability  $\pm 20 \text{ kHz} (-30 \text{ to } +60 ^{\circ}\text{C})$ 

EMC FCC Part 15 Operating Ambient Temperature -40 to +60°C

Size 4.9" x 6.8" x 1.1" (12.4 x 17.1 x 2.7 cm)

Mounting Pole mount, 1" to 1.75" diameter pole

Weight 0.5 kg

The DOCSISTM acronym belongs to CableLabs®



150 CARDINAL PLACE, SASKATOON, SK S7L 6H7
TEL: (306) 955-7075 FAX: (306) 955-9919 E-MAIL: SALES@VCOM.COM WEBSITE: WWW.VCOM.COM