

## **Product Features**

- Wirelessly extend CATV HFC networks to provide broadband wireless DOCSIS<sup>TM</sup> services to areas outside the reach of the wired plant
- Strand mount design with fully weather-proof enclosure for quick and easy integration into the outdoor CATV HFC network
- Supports SNMP management for remote control as well as local control via RS-232 interface for on site configuration and monitoring
- Internal demodulator/remodulator ensures excellent downstream signal, independent of CATV downstream signal quality
- Incorporates a number of features to control upstream ingress, protecting current wired customers and ensuring network integrity, such as:
  - Automatic upstream muting
  - Remote monitoring of upstream levels
  - Control of upstream gain and muting



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### 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

VCOM AP5857
STRAND RADIO SYSTEM

## SPECIFICATIONS — VCom AP5857 STRAND RADIO SYSTEM

## **Access Point AP5857**

#### **DOWNSTREAM**

Transmit RF Output Frequency Range Transmit EIRP IF Input Frequency Range IF Input Level Range Downstream Modulation

Downstream Flatness

5799 to 5823 MHz +15 to +28 dBm 91 to 857 MHz 0 to +20 dBmV per channel

64QAM, 5.06 MSym/sec or 256QAM, 5.36 MSym/sec 1 dB p-p over 5 MHz, typical

## **UPSTREAM**

Receive RF Input Frequency Range Noise Figure (at RF connector) Image Rejection IF Output Frequency Range Gain Range

IF Level Gain Flatness (frequency response)

Spectral Inversion Return Loss (IF)

5727 to 5751 MHz 6 dB max at max gain 90 dB minimum 18 to 42 MHz  $36 \pm 2 \text{ dB to } 76 \pm 2 \text{ dB}$ at mid band 17 to 50 dBmV ± 0.5 dB over 3.2 MHz, 2 dBpp full band No spectral inversion 13 dB: 5 to 42 MHz and

### GENERAL

Upstream Ingress Mitigation Automatic upstream IF mute

Upstream gain control

Upstream mute control via remote access

88 to 857 MHz

IF Connector F female, 75 ohms 35 to 90 VAC, 60 Hz Power Requirements Power Consumption 27 W maximum

Remote and local status monitoring Management

and control

SNMPv1.1 remote access

RS232 command line local craft interface

Operating Temperature Range

Antenna

Downstream Link Margin

(line of sight)

**EMC Compliance** 

Configurations

Size

Weight

Upstream power detector

-40 to +60 °C

Integrated: 60° horz. & 30°

vert. beamwidth

16.5 dB (64QAM, 1 mile); 3.8 dB (256QAM, 2 miles)

FCC CFR 47, Part 15, Subpart B

FCC Part 15 subpart E, section 15.401 Industry Canada RSS-210 6.2.2 (q1)

LELAN devices

Strand mount, utility pole mount, pipe mount (options STRAND, POLE, PIPE)

60.2 x 22.3 x 12.4 cm (23.7 x 8.8 x 4.9")

7.1 kg (15.6 lbs)

# **SUBSCRIBER UNIT** TRI5758 (WITH OPTION AP)

### **DOWNSTREAM**

RF Input Frequency 5799 to 5823 MHz 540 to 564 MHz IF Output Frequency Gain (Integrated)  $36 \text{ dBi} \pm 2 \text{ dB}$ ± 1.5 dB full range Gain Flatness (Frequency Response) ± 0.5 dB any 6 MHz range

Gain Stability Over Temperature

Noise Figure Image Rejection

Discrete Spurious (at IF port)

Phase Noise (IF)

Spectral Inversion

± 2.0 dB

6.0 dB typical, 7dB max 90 dB minimum

-80 dBm between 540 and 564 MHz -50 dBm from 5 MHz to 540 MHz and

from 564 MHz to 860 MHz <-85 dBc/Hz @ 10 kHz typical

No spectral inversion



#### **UPSTRFAM**

IF Input Frequency RF (upstream) Output Frequency

Gain (Integrated)

Gain Flatness (Frequency Response)

Gain Stability Over Temperature Linear Output Power

Spurious (at transmit port)

Phase Noise Spectral Inversion Return Loss (IF)

IF Level for RF Activation RF Activation/Mute Response Time 18 to 42 MHz 5727 to 5751 MHz 26 dBi ± 2 dB ± 1 dB full band

± 0.5 dB over any 3.2 MHz band

± 2.0 dB

+5 dBm into antenna (16 QAM, QPSK) -40 dBm 9 kHz to 21.4 GHz < -85 dBc/Hz @ 10 KHz typical

No spectral inversion 10 dB in transmit and receive bands

+ 5 dBmV

<2 microseconds

#### GENERAL

Integrated Flat Panel Antenna

Gain Beamwidth Polarity

Cross Polarization Isolation Front/Back Ratio

IF Connector DC Supply

Operating Temperature Size

Mounting

Weight

F female, 75 ohms 18 to 24 VDC, 12W max. -40°C to +60°C 30.5 x 30.5 x 7.5 cm (12 x 12 x 3")

Pole mount

23 dBi

20 dB

30 dB

9.0 degrees

1" to 2.5" dia. pole or wall

mount with 90 deg pol, az and el adjustment

Vertical or horizontal

2.7 kg max.

Part Number TRI5758, option AP



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

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