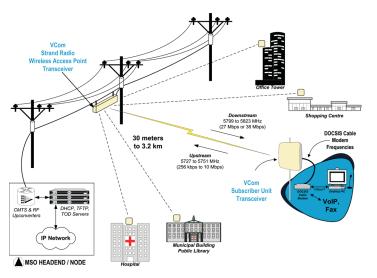
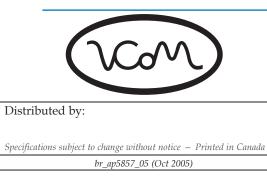
The VCom **AP5857** strand radio system wirelessly extends the CATV HFC network into underserved and hard to reach areas. Operating in the 5.8 GHz unlicensed UNII band, the system provides a transparent full-duplex link for DOCSIS<sup>TM</sup> service with the same 64 QAM/256 QAM (downstream) and QPSK/16 QAM (upstream) signals that are used on the wired network. The AP5857, working in conjunction with the VCom TRI5758, significantly enhances market penetration of broadband wireless DOCSIS<sup>TM</sup> services while minimizing the infrastructure investment and maintaining advanced services.



# **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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### 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



#### 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)

#### GENERAL

Upstream Ingress Mitigation

IF Connector Power Requirements Power Consumption Management

Operating Temperature Range Antenna

Downstream Link Margin (line of sight)

EMC Compliance

Configurations

Size Weight 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

5727 to 5751 MHz 6 dB max at max gain 90 dB minimum 18 to 42 MHz 36  $\pm$  2 dB to 76  $\pm$  2 dB at mid band 17 to 50 dBmV  $\pm$  0.5 dB over 3.2 MHz, 2 dBpp full band No spectral inversion 13 dB: 5 to 42 MHz and 88 to 857 MHz

Automatic upstream IF mute Upstream gain control Upstream mute control via remote access Upstream power detector F female, 75 ohms 35 to 90 VAC, 60 Hz 27 W maximum Remote and local status monitoring and control SNMPv1.1 remote access RS232 command line local craft interface -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 IF Output Frequency Gain (Integrated) Gain Flatness (Frequency Response)

Gain Stability Over Temperature Noise Figure Image Rejection Discrete Spurious (at IF port) -

Phase Noise (IF) Spectral Inversion

### Upstream

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

#### GENERAL

Integrated Flat Panel Antenna Gain Beamwidth Polarity Cross Polarization Isolation Front/Back Ratio IF Connector DC Supply Operating Temperature Size Mounting 23 dBi 9.0 degrees Vertical or horizontal 20 dB 30 dB 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 1" to 2.5" dia. pole or wall

mount with 90 deg pol,

az and el adjustment

TRI5758, option AP

Weight Part Number

The DOCSISTM acronym belongs to CableLabs®

2.7 kg max.



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Specifications subject to change without notice. - Printed in Canada.

br\_ap5857\_05 (Oct 2005)

5799 to 5823 MHz 540 to 564 MHz 36 dBi ± 2 dB nse) ± 1.5 dB full range ± 0.5 dB any 6 MHz range e ± 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

> 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