

Re: MCE 2005 w/ Rollup 2 AND HDTV

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.mediacenter/2006-03/msg02219.html>

- *From:* "JW" <nospam@xxxxxxx>
 - *Date:* Wed, 29 Mar 2006 08:12:10 -0800
-

There aren't any.

"Mike" <Mike@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
news:E575BFDA-9526-4884-8B45-51D233A5DF30@xxxxxxxxxxxxxxxxxxxx

grrr.
you're not offering me any outs here
:
Thanks for information

"JW" wrote:

ATSC over the air is Encoded so it uses very little bandwidth just like
QAM
has encoded HDprograms which also use very little bandwidth when compared
to
Decoded.
Of course they use a lot more bandwidth than encoded SD programs which
can
also be received OTA IAW ATSC specs.

"Mike" <Mike@xxxxxxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
news:720A7492-B57B-4812-936A-836B7AA2218C@xxxxxxxxxxxxxxxxxxxx

Thanks – that does make sense to me but it raises another
question...
How is ATSC after decoded from a STB any different from
the "supported"
ATSC
Over The Air? Wouldn't we run into the same limitations –
but MS
actually
supports HD OTA...
?

"JW" wrote:

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The signal that is broadcast is compressed and encoded in MPEG2 format.

For example if in a particular part of a frame image the same color covers

quite a few pixels together then the encoded covers the whole group of pixels at once. Also every frame is not transmitted. Full frames are transmitted and then change pixel data is transmitted when there are only

minor changes to the image such as the image of the newscaster on the evening news.

The decoded video that is sent over component, DVI or other display interface transmits all of the pixel data for every frame which is why it requires a much higher bandwidth.

"Mike"

<Mike@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in message

news:F0DD6F85-10AC-445A-B395-6532D2732FC3@xxxxxxxxxxxxxxxxxxxx

Can you tell me why STB puts out ATSC at such high output Vs OTA ATSC (which most pvr's / Pc's / MCE can handle)?

What are the bandwidths limits that people are getting from coax ports on common PVR's? Thanks JW!

"JW" wrote:

QAM is an RF transmission method used by

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Cable companies that they use for the transmission of both SD and HD broadcasts. The ATSC standard has two parts first the RF transmission method and secondly the video resolution formats that are to be used for digital TV. The cable companies use the same ATSC resolution formats when they are using the QAM RF transmission technology.

There is no way to import decoded HD into a PC from a STB since it could require a bandwidth of up to 1.6GB/sec. Yes your graphics card can be

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limiting
when
receiving
HD
programing
via
an
HDTV
tuner card.
Some of the
Fusion
HDTV
tuner cards
also have a
QAM tuner
which
can
be
used
to get the
Unencrypted
QAM
channels
from your
cable,
however,
when
doing
so
you have to
use an
applicatrion
other than
MCE.
Since the
unencrypted
QAM
channels
from your
cable
company
are the
same
channels
that the
HDTV
tuner card
can
probably
recieve with
a small

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antenna
and which
can then be
handled by
MCE there
is not much
benefit to
using
the
cards QAM
tuner.

"Mike"

<Mike@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote in
message

news:D1EFE440-A60E-472A-B1F5-BF4AA7FB83B4@xxxxxxxxx

OK,
Let
me
understand,
QAM
comes
into
my
house,
QAM
gets
converted
to
both
ATSC
and
NTSC
after
the
cable
box.
Theoretically,
if
I
took
the
DVI
(or
component)out
from
the
cable
box,

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and
ran
it
in
to
a
DVI
(or
component)
in
on
my
MCE
box
-
we'd
have
HD
to
MCE
-
then
if
I
output
Through
DVI
to
my
TV
-
I,
in
theory
now,
have
HD
on
my
tv,
through
MCE.??
(of
course
knowing
that
my
graphics
card
or
PVR

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card
isn't
limiting
the
ATSC
feed)?
So
in
summary,
since
I
cannot
find
a
PVR
Card
that
supports
component
cables
or
DVI,
(grrr),
(let
me
know
if
you
know
of
one),
I
cannot
get
HD
out
of
Cable?
-mike

"JW"
wrote:

All
of
the
SD
cable
channel
inputs

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are
in
NTSC(480i)
format
both
analog
and
digital.
The
HD
channel
inputs
are
in
ATSC
resolutions
transmitted
via
QAM
which
is
not
the
same
as
ATSC

There
is
no
requirement
that
any
Cable
or
Satellites
companies
transmit
IAW
ATSC
RF
standards
since
they
are
not
transmitting
using
an
antenna
with

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FCC
assigned
frequencies.

An
NTSC
tuner
can
only
receive
NTSC
standard
analog
RF
channels(2-99)
which
can
come
by
antenna
or
by
analog
cable.

An
ATSC
tuner
can
only
receive
MPEG2
encoded/compressed
digital
RF
channels.
When
your
comcast
sends
output
to
your
TV
in
Component
or
DVI/HDMI
it
is
sending

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decoded/uncompressed
HD
video
and
part
of
the
signal
using
these
transports
tell
the
TV
what
resolution
it
is
receiving.

Yes
a
COAX
cable
can
carry
either
NTSC
or
ATSC
RF
signals
but
if
the
receiving
end
tuner
will
receive
they
type
of
signals
it
is
designed
for
just
as
a

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telephone
line
can
transmit
any
language,
however
if
the
listener
does
not
understand
Russian
the
talker
can
not
speak
Russian
and
be
understood.

"Mike"

<Mike@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote

in

message

news:35D20798-B96A-4864-8BD6-08AFBFF338

So
I
guess
the
bottom
line
is,
after
the
comcast
box,
(through
component
OR
through
coax)
the
format
is
NOT

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ATSC
(correct?)
so
Windows
XP
Media
Center
Edition
will
NOT
interpret?
Is
that
correct?
How
does
my
TV
know
that
the
feed
is
HD
then.
I
thought
ATSC
was
the
new
digital
standard
that
the
US
is
pushing
and
all
should
conform.
If
that
is
the
case,
in
what
format
does

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Comcast
HD
come
in
as
(my
TV
ONLY
tells
me
that
720p
is
coming
in
directly
from
the
comcast
box
and
NOT
the
format)
I
had
assumed
that
the
cable
box
just
doesn't
have
a
HD
Tuner
on
the
coax
out.
But
Coax
should
carry
HD
(especially
in
the
form
of

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ATSC
OTA)
Confused...?

"GBK"
wrote:

it
outputting
480i
thru
coax
from
your
comcast
box
then
you
have
a
non
HD
card
so
it
only
accepts
480i
NTSC
format.
the
problem
isn't
so
much
that
MCE
won't
support
HD
from
Cable
but
more
so
that
the
cable
conglomerate
didn't

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allow
to
build
cards
that
can
tune
HD
Cable.
MCE
can
handle
HD
(ATSC
format

over
the
air
only)
res
etc
you
just
don't
have
a
card
that
will
supply
it
in
that
format.
There
is
no
cards
available
that
will
let
you
do
this
at
this
point...
Microsoft
Vista

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will
have
the
ability
to
use
a
new
card
that
should
come
out
in
the
same
time
frame
but
at
this
point
it's
unclear
that
you
will
be
able
to
buy
it
as
an
addon
to
your
current
pc..
From
what
I
understand
it
will
only
work
with
Vista
and
will

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me
that
the
feed
"should"
pass
through...
??
What
does
the
comcast
box
/
hd
tuner
directly
to
the
tv
do
that
media
center
won't
understand?

Thanks

"Roy"
wrote:

Mike,
MCE
2K5
only
supports
Over
the
Air
HD,
so
the
comcast
HD
won't
work
though
your
Media

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Center.
However,
it
will
work
on
an
HD
tuner
connected
directly
to
an
HD
TV.
Hope
this
helps/

"Mike"
wrote:

Hopefully
I
don't
piss
off
too
many
people
with
this
question
(I
did
search
a
bit
before
sending
this,
however
the
results
that
I
found
seem
old)

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So
as
of
3.27.06,
can
I
get
HDTV
(from
Comcast
-
through
their
HD
Conversion
box)
passed
through
MCE
2005,
to
my
TV
-(channels
changed
using
IR
Blaster).
The
biggest
problem
that
I
see
at
this
point
is
losing
it
from
the
Comcast
box,
going
to
the
PC
running
MCE.
The

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PC
has
the
Hauppauge
500
with
1
coaxial
input,
1
svideo
input,
and
1
composite
input
–
all
that
"aren't
HD".
Is
there
a
PVR
type
card
that
will
keep
integrity
of
HD
the
HD
feed?
I
currently
have
the
Comcast
HD
box
connected
to
MCE
with
Coaxial
cable,
however
the

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Motorolla
box
(I
believe)
doesn't
support
HD
from
the
Comcast
/
Motorolla
coaxial
OUT.
??
This,
I
believe,
is
where
I
am
losing
HD
feed