

1. What is this Christian Radio Consortium?

An informal group of Christian radio satellite program distributors who've come together to solve a technical problem the industry faces: the end of our current technology called FM². The group includes Ambassador Inspirational Radio, Focus Satellite Network, Moody Broadcasting Network, Salem Radio Network, SkyLight Satellite Network, USA Radio Network and VCY America Network.

2. How did this consortium form?

It came together as a result of being told at the 1998 NRB convention our current technology would no longer be offered after February 29, 2000. The group agreed it would be best to work together to find a common solution while minimizing the impact on radio stations. The CRC held a common dream to provide dozens of satellite services through a single receiver for most stations.

3. Is this a "formal" organization, like NRB?

It's informal by design but serious in intent and work. The CRC technical module, once a transition has been completed, will pursue other industry issues such as store-forward technology, DAB (digital audio broadcasting) and an examination of Web-casting's impact on the industry for example.

4. The current system seems to be working fine. Why make this change now?

The choice was not the CRC's. The current system (FM²) is inefficient with satellite space. The rising costs of construction, launch and maintenance forced satellite providers to be more productive in the use of their resources.

5. What is the timeline of the system?

The headends will be tested in early 1999. Stations should order their receiver directly from Wegener in the spring of '99. Installation and transition must be completed by September 6, 1999. *(Plan on 6-8 weeks for receiver delivery.)*

6. Will there be a change in the audio quality?

For those who are currently operating analog, yes—as much as you'd expect from any transition from analog to digital—with all the inherent advantages. For Moody, Morningstar and SkyLight affiliates, any change will be nominal.

7. What will a receiver cost?

A standard receiver, which provides two stereo audio outputs is estimated to cost \$2625. The receiver can be configured with a 14-position relay card and additional two stereo audio outputs which is estimated to cost \$2925.

8. How and when can I purchase a receiver?

Receivers will be purchased directly from Wegener. However the receivers will not be shipped until after the system has been thoroughly tested by the CRC technical group. We estimate this to be in April of 1999.

9. Will I need any other new equipment?

Each receiver will be shipped with a new LNB. In some cases, depending upon antenna size, a station may need to install a new antenna. This is a result of antenna gain and 2° spacing of satellites. Satellite dishes which are not 2° compliant may encounter adjacent satellite interference. Antennas which are not large enough (minimum 2.8 meters) may not have enough signal gain to function without periodic interruption.

10. Can stations use their existing receivers?

The system will require a new DVB compliant receiver. The CRC has decided to standardize on Wegener's UNITY4000 receiver which meets or exceeds the specifications of any receiver currently in use.

11. Is that different from the group of Focus Satellite Network ministries?

The Focus group is part of the CRC. Several ministries have joined Focus in an effort to share satellite time just as each of the seven networks also represents a broad range of radio broadcasts being distributed via satellite.

12. What's your view of these various ministry organizations working together?

To say that it is historic in an understatement. Never have such a broad range of ministry organizations gathered with the primary objective of standardizing a transmission scheme. The group has been of one accord on every significant issue down the line—a real indication of God's hand—with a sense of unanimity and a spirit of genuine cooperation. As a result, stations will have a greater variety than ever—hundreds of programs—received through seven or more satellite distributors from one single receiver.

13. How can I receive additional information?

Contact any of the CRC members:

Network Represented	Name	Company	Phone
Ambassador Inspirational Radio	Jim Sanders	Ambassador Advertising Agency	714.738.1501 x231
Focus Satellite Network	Steve Reinke	Focus on the Family	719.531.3442
Moody Broadcasting Network	Phil Shappard	Moody Broadcasting	312.329.4438
Salem Radio Network	Mike Price	Salem Radio Network	972.831.1920
SkyLight Satellite Network	Dale Davis	SkyLight Satellite Network	651.631.5032
USA Radio Network	Tim Maddoux	USA Radio Network	972.484.3900
VCY America Network	Vic Eliason	VCY America Network	414.935.3000



Ambassador Advertising

Moving

Focus on the Family

in the

Moody Broadcasting Network

same

Salem Radio Network

direction:

SkyLight Satellite Network

from FM²

USA Radio Network

to DVB

VCY America Network

CHRISTIAN RADIO'S MAKING A MOVE!

Starting in spring 1999, Christian satellite program distributors are moving together!

An Overview

The organizations listed on the cover have been using a technology known as FM² to distribute programs. In February of 1998, we were informed that FM² was not going to be available as a transmission system beyond February 29, 2000.

Through a series of lengthy conference calls, meetings, and E-mails, the networks focused on one thing: building a system that would allow a radio station to receive dozens of satellite channels on a single receiver for most stations.

Our goal was to set standards for the Christian radio industry so a transition into new technology would be as smooth as possible.

The group is known as the Christian Radio Consortium (CRC). A careful study of network, station and program producer needs resulted in an outline for a new technology platform. The conclusion was unanimous: a migration was in order to a DVB-compliant system using the Wegener® Communications UNITY™ 4000 receiver.

DVB

The Digital Video Broadcasting Project (DVB) includes well over 220 member organizations in more than 30 countries worldwide. The members are broadcasters, manufacturers, network operators and regulatory bodies—all committed to designing a global family of standards for the delivery of digital program delivery via a variety of media: satellite, cable, terrestrial, microwave, MDS, CATV, SMATV. DVB compliant equipment and DVB transmissions are on the air in five continents. DVB systems deliver a flexible range of picture qualities, multi-channel sound and multimedia data. The entire configuration can be tailored to meet the demands of any service provider and market.

For further information, see the DVB Web site at: www.dvb.org

UNITY4000 MPEG2 Receiver Technical Specifications

The UNITY4000 is a DVB-compliant receiver. The CRC has called for two minor hardware and software modifications based on the group's objectives: an increase of analog program audio output as well as program level receiver authorization.



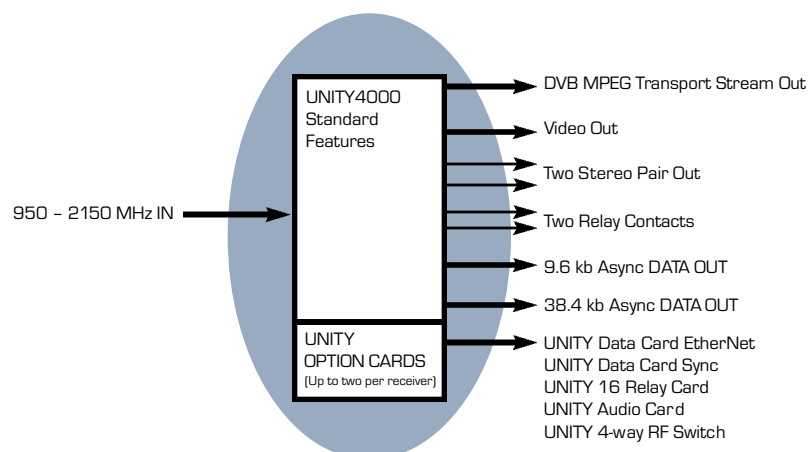
One Digital Platform for Audio and Data

The UNITY4000 Broadcast Network Receiver teams a flexible MPEG2 Receiver with Advanced Control capabilities through Wegener's COMPEL™ Network Control System. This design unites powerful built-in features:

- DVB MPEG Transport Stream output
- Two balanced audio stereo pair
- Two asynchronous data ports
- Two TTL contacts

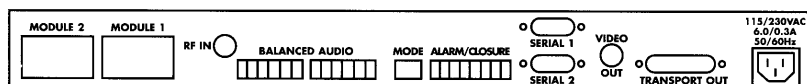
Option Card Flexibility

UNITY Option cards allow the UNITY4000 to expand its feature set. Additional audio outputs. High speed synchronous or Ethernet data ports. The UNITY RelayCard puts 14 additional remote controllable relay contacts at your command.



RF Characteristics

Input Frequency Tuning via Front Panel Control or COMPEL	
Input Frequency Range	950 to 2150 MHz
Carrier Lock Range	± 1.0 MHz
Input Level Range	-20 dBm to -135 dBm/Hz
Input Impedance	75 Ohms
LNB Power	18 VDC polarity switching @ 200 mA max.
Tuning Resolution	1 kHz
Modulation	QPSK
FEC Coding	Concatenated Reed-Solomon/convolutional (DVB)



Audio Compression Characteristics

Compression Type	MPEG Layer II
Data Rate	64 - 384 kpbs
Output Modes Supported	Mono, Dual Mono, Joint Stereo

Audio Output Characteristics

Frequency Response	20Hz to 20kHz
Output Level @ max PPL	+18.0dbm
Impedance	Balanced, <50 Ohms
Harmonic Distortion	<0.1%
S/N Ratio	>80 dB

Outputs

Audio	<50 Ohms via screw terminals
MPEG Transport Stream	DVB Parallel LVDS
Alarm	Relay closure via removable screw terminals
TTLs	Closure via removable screw terminals
Data Port One	9.6 kb RS232 via DB9 connector
Data Port Two	38.4 kb RS232 via DB9 connector

Mechanical

Power	Universal switching power supply
Size	Rack mount: 1.75" x 19" x 13.5"
Operating Temperature	10° to 40° C

Agency Approvals (pending)

FCC Class B, UL, CSA, CE