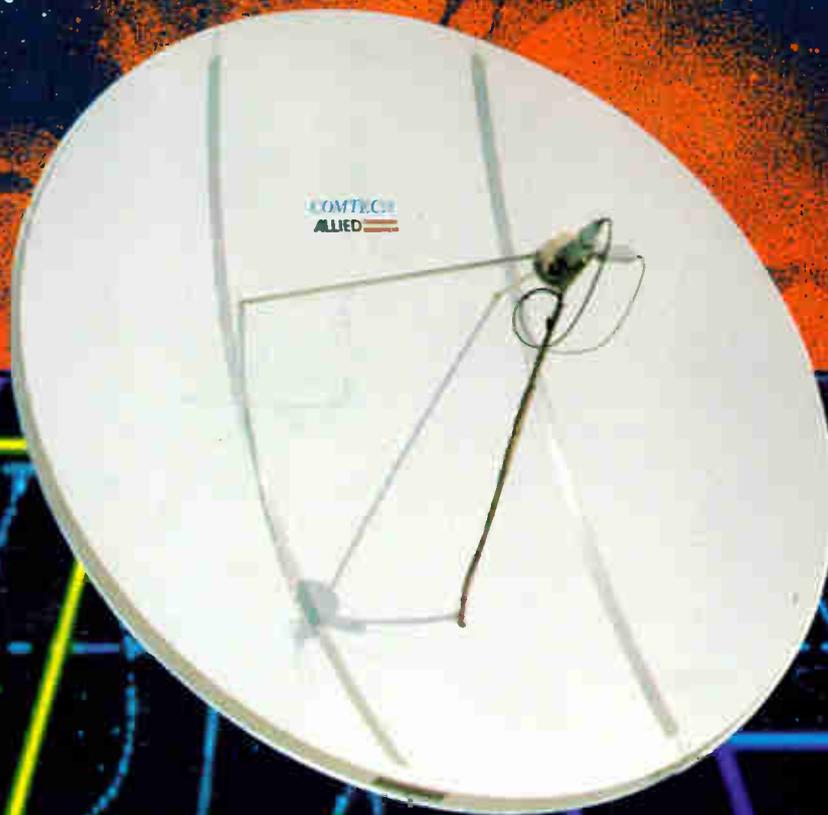


ALLIED

Satellite Equipment



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Roy M. Ridge
President

Dear Broadcast Professional,

Growth and change are the two things we can count on in the broadcast industry. August 1988 saw one of the most positive changes when Allied joined Harris' Communications Sector. This change brought together the world's leading radio studio products supplier and the world's leading transmission equipment manufacturer.

Six years ago Allied answered broadcasters' needs for reliable satellite audio products by creating Allied Satellite Equipment. This was to better serve you, the broadcaster. The Harris/Allied combination continues this tradition.

For all your audio satellite needs we hope you will call on us to serve you.



Jeff Nordstrom
Sales Manager

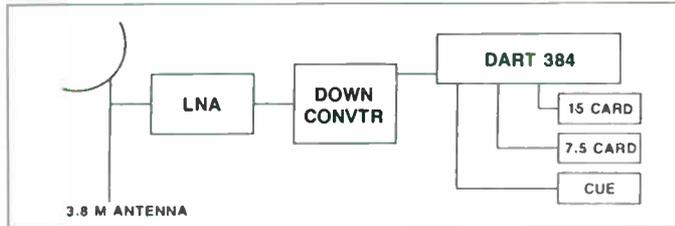
- Allied offers several leasing plans to meet your needs—including a Lease/Purchase Plan.
- Terms and Conditions of Sale may be found in the domestic Allied Broadcast Equipment Catalog.
- All pricing and/or specifications are subject to change without notice.

Allied disclaims any implied warranties of merchantability or of fitness for any particular purpose. Since Allied cannot control the manner or use of products after their sale, Allied will not be responsible for any consequential or indirect damages. Since Allied is only acting as a distributor of products manufactured by other companies, Allied expressly limits its liabilities to any warranty extended by the manufacturer. Allied will pass these guarantees through to the customer.

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Telex 810-345-1394 • FAX 317-962-8961

FAIRCHILD

Dart 384 Digital Audio



Complete system packages are available and include the antenna, mount, feed, LNA, all cables and all electronics. Let ALLIED put the best system together for you!

The Fairchild Dart 384 Digital Audio Receiver allows the reception of program material broadcast via satellite using digital techniques. It is fully compatible with the high-quality digital satellite system currently in use by all digital networks plus many special and sports programs.

The receiver electronics are supplied in two separate assemblies. The receiver mainframe, which requires only 10 1/2" rack space, features modular plug-in construction. The frame includes the system power supply, control/demodulator module and the demultiplexer module in which the digital satellite information is decoded. The control/demod module includes crystals for all four digital transponders and front-panel transponder selection switch. This is an exclusive Fairchild feature.



Dart 384 Digital Audio Receiver Terminal



Downconverter

The Fairchild Downconverter is an environmentally sealed unit which can be mounted at the antenna or immediately behind the mainframe (another Fairchild exclusive). Outdoor mounting allows the use of less expensive and longer cable from the dish to the receiver. A single coax cable carries DC power for the downconverter and LNA, a local oscillator signal from the receiver, plus the incoming satellite signal. This technique allows the antenna components to be separated from the demodulator shelf by cable runs up to 400 feet.

Audio program channel modules are available in dual 15 kHz, dual 7.5 kHz and 3 kHz voice/cue configurations. All audio program channel modules are frequency agile and can be remotely controlled via connectors provided on the rear of the chassis.

Available Only At Allied

MICRO PHASE

SCPC Audio Satellite Demodulator MP-2030S/MP-2020S



The Micro Phase Single Channel Per Carrier (SCPC) Receivers feature rock-solid downconverter stability, which is a prerequisite of high quality SCPC reception. This excellent stability performance has not in the past been available at a price this low. The output of the downconverter is 70 MHz and is available on the rear panel.

Demodulator frequency agility is achieved with synthesized tuning available on the front panel. Channel changes are instant and precise. Tuning range 52.0 MHz to 88 MHz.

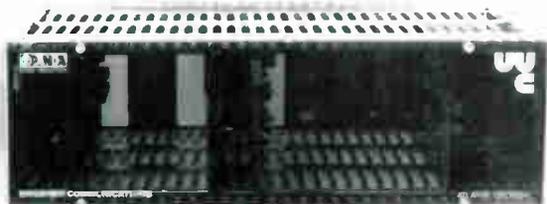
The Micro Phase model 2020S features two demodulators with independent tuning, perfect for stereo reception.

Audio characteristics are excellent. Audio output standard is balanced 600 ohm at +18 dBm. Conventional companding is accommodated with a choice of 3/1 or 2/1 or other choice. Bandwidth choice is either wide (15 kHz) or narrow (3.4 kHz, 5.0 kHz or 7.5 kHz).

Call For The Allied Price

WEGENER

**Series 1600
Audio & Data Transmission System**



Model 1601 Mainframe

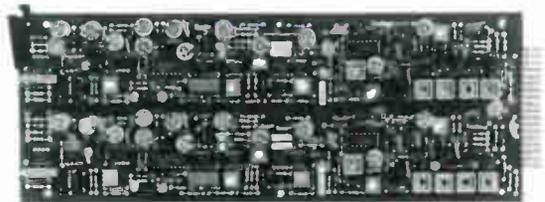


Model 1602 Mainframe

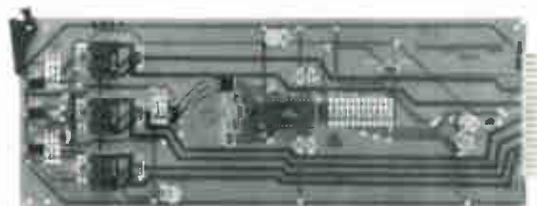
Subcarrier Demodulators/Tone Decoders



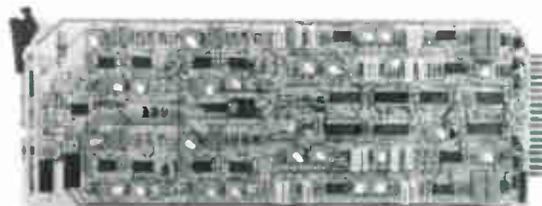
1610 PANDA II



1626



1644



1648

The Model 1610 PANDA II Demodulator provides extremely high quality program audio demodulation of satellite and terrestrial subcarrier audio transmission utilizing Wegener PANDA II audio processing. Each card contains a precision subcarrier demodulator. Subcarrier frequency selection is crystal controlled. The demodulation signal is passed to the PANDA II audio processor to provide a full 90 dB dynamic range.

Series 1610 through 1639 Subcarrier Demodulators are configured according to network requirements with regard to mono/stereo and audio bandwidth. Both 7.5 and 15 kHz audio bandwidths are available. All demodulators contain an on-board adaptive de-emphasis network designed by Wegener Communications to be a mirror image of the Wegener Subcarrier Transmission equipment installed at the network uplink, resulting in superior audio performance.

The Wegener Communications, Inc. Series 1600 Audio Transmission System provides high quality 15 kHz bandwidth program channels for the transmission of stereophonic or monaural audio channels above video in satellite distribution networks as well as microwave channels. Stereo channels are transmitted as separate left and right channels using individual narrow bandwidth, low deviation subcarriers for transmission of each discrete channel. At the receiving end of the link (downlink), the left and right audio channels are available to the studio equipment, or if the downlink is not at the studio location an optional stereo generator/FM modulator may be used for insertion on a cable system.

Wegener Mainframes:

The Model 1601 Mainframe/Power Supply provides nine module slots to accommodate the 1600 family of products.

The Model 1602 Mainframe/Power Supply provides two module slots to accommodate the 1600 family of products.

The Model 1645 and Model 1646 Tone Decoders are used as a pair to provide six contact closures for network control functions and eliminate control tones from program audio lines.

**Wegener Controller Cards
Sub-Audible**

- Model 1645 - 25 Hz for Stereo or Mono
- Model 1646 - 35 Hz for Stereo or Mono
- Model 1647 - 25/35 Hz for Mono Services
- Model 1648 - 25/35 Hz 15 Function

Touch Tone Compatible

- Model 1649-01 - 6 Function DTMF
- Model 1649-02 - 16 Function DTMF

Data Stream Controllers

- Model 2047-03/2046-07 Microprocessor Controller, 15 Function, Data Output

Allied Can Help Select The Proper Controller For Your Application

TECTAN

Model 412 Frequency Agile SCPC FM Terminal



- **Frequency Agile.** One terminal does the job of many single channel units. Frequency selection can be made from the front panel or by remote control.
- **Threshold Extension** with TECTAN's patented phase-locked loop detector.
- **Exceptional Low Distortion** (0.1% back-to-back operation to allow the use of various types of compandor networks without exceeding 1% distortion).
- **Adaptive Energy Dispersal Network** for transponder loading protection and reduced intermodulation interference.
- **Internal Frequency Synthesizer** for excellent frequency stability.
- **Carrier, Level and AFC alarms.**
- **Two Models** to fit your system needs: 412/Basic and 412/360.
- **15 kHz Bandwidth Standard.** Also available in specified bandwidths from 8-20 kHz.

Model 450 Dual FM Subcarrier



- **Two Transmitters or Receivers in 1 1/4" Height.** Each unit contains two completely independent transmitters or receivers.
- **Frequency Agility Range 1.00-9.99 MHz.** Each of the two transmitters or receivers contains its own independent frequency synthesizer.
- **Front Panel Controls.** All operator adjustments and controls are conveniently placed on the front panel.
- **Improved Noise Reduction System.** The 450 utilizes a completely redesigned and improved noise reduction system developed from Tectan's 3:1 compandor in use worldwide for satellite SCPC program channels.
- **Better Than Digital Sound Quality.** With better than 90 dB dynamic range, less than .1% THD, no quantizing distortion, and flat frequency response, the 450 provides a virtually transparent audio path for your program audio material.

Call Allied For All Your Sub-Carrier Needs

COMTECH



3.8 METER ANTENNA

The 3.8M is the perfect antenna for reception of any format audio network, whether the transmission is Digital, Subcarrier, or SCPC. Careful, tight tolerance construction assures maximum gain and minimum beamwidth so necessary for today's crowded satellite arc. Range tested gain spec of 42.9 dB!



5.0 METER ANTENNA

The 5.0M is the choice for professional reception of video for television broadcast, or where additional antenna gain is required for low-powered audio network reception. Rugged, three-piece fiber glass construction maintains extremely good surface tolerance for maximum gain and minimum side-lobe performance.



3.5 METER KU-BAND ANTENNA

- Fully Automated
- Parabolic Accuracy
- Cassegrain Feed
- FCC 2° Compliant
- Full Arc Coverage
- Mount Stability
- Microprocessor Controlled



EC6 Antenna Controller

Designed for use with Comtech's motorized antenna systems. The EC6 is a microprocessor control which stores up to 64 different satellite locations. An exceptional feature is the "Program Pak" concept. All software is incorporated in a removable cartridge. The cartridge is accessible from the rear of the cabinet and allows updating or customizing of the software to a particular application.

Call For The Allied Price

MICRODYNE

SCPC Satellite Downlink Receivers



1100-FFC-X1 RDC(L)

The 1100-FFC-X1 RDC(L) is designed to downconvert any one of the 24 transponder channels which may be used for SCPC receiving systems. This unit has been widely used by many of the national, state and regional radio networks currently delivering their programming via satellite. It has become an industry standard. If you need a reliable downconverter which converts C-band transmissions to a very stable 70 MHz output, you would be wise to choose the 1100-FFC-X1 RDC(L).



1000-SCM

The 1000-SCM provides an exceptionally stable frequency modulated fixed carrier in the 50-90 MHz band for up-conversion and transmission to a satellite by a companion 1100-TVE Frequency Agile Exciter. Available in two models (wideband or narrowband), the 1000-SCM provides the radio broadcaster with the most stable, noise-free and reliable SCPC radio modulator available.



1100 PCDR-5

The PCDR-5 features more agility than any other SCPC demodulator from Microdyne. Exceptional flexibility is provided by the front panel five-section push-button switch assembly, which allows you to select wideband (high fidelity) or narrow band (broadcast voice grade). Companding and frequency selections are all front panel available.



1100-TVE

Microdyne's 1100-TVE converts the 70 MHz input from the 1000-SCM Modulator up to the 6 GHz range for transmission to the satellite. Noise and distortion levels of this dual conversion unit are so low that it's virtually transparent to the uplink system.

Call For The Allied Price

CONEX



CONEX UM-33 MONITOR SYSTEM

The Conex UM-33 is a stereo, eight channel in, two channel out general purpose cue, monitor, and line amplifier. Features include: 8 balanced bridging stereo inputs, stereo VU meters, stereo monitor amp, speakers and more, all in a 1-rack-unit-high package.



CONEX CG-25 AUTOMATION TONE GENERATOR

The Conex CG-25(R) Tone Generator provides a simple, low-cost method of encoding reel tapes for automation/unattended playback. It provides adjustable pre-roll and stop timing as well as tone timing to keep your format execution consistent. Allied can provide table-top or rack mount versions.

Call For Pricing Details



CONEX CS-25 AUTOMATION TONE SENSOR

The Conex CS-25 is a dual bridging type 25 Hz tone sensor for reel tape machine control in broadcast automation and tape control systems. It features "dry" contact closure for duration of sensed tone as well as momentary pulse at end of tone, and adjustable delay stop for total compatibility. The front panel has indicator lights (one per channel) to show presence of tone. A front panel inhibit switch allows convenient bypass of control when desired.

Call Allied For More Information



CONEX AS-101 AUDIO SWITCHER

The Conex AS-101 Audio Switcher allows any one of ten stereo sources to be switched to the stereo output buss. Switching is accomplished by pressing one of the illuminated buttons on the front panel or via the remote connector on the rear panel. Features include two switching modes (immediate and overlap), individual audio level controls, transformerless inputs and output, 600 ohm or 10K bridging.

COLORADO MAGNETICS

Sat Cue 400



The **SatCue 400** is an audio switching unit designed to be used with satellite radio program networks. Upon activation, the SatCue 400 allows automatic, unattended insertion of commercial audio, or news (external) audio. Activation is provided at the proper times by the satellite network cue system. Control of the SatCue 400 provides two methods of "cueing" for commercial breaks.

For Full Details And Pricing Call Allied

ALLIED

POWER INSERTER/D.C. BLOCK



The **Allied Power Inserter/D.C. Block** is used as a power inserter for supplying external bias to an LNA independently of the satellite receiver. When used as a D.C. Block, multiple receivers can be connected to one LNA and only the desired LNA power be allowed to pass from the desired receiver. Type "N" connectors are standard.

CAL-AMP



The **Cal-Amp Low Noise Amplifier (LNA)** provides up to a full 50 dB of gain using a 3.7 to 4.2 GHz FaAs FET amplifier.

Call For Stock & Current Low Price

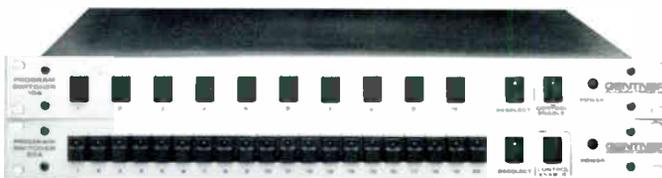
POWER DIVIDER/SPLITTER



The **Allied PD-2 Series of Power Dividers/Splitters** are employed to divide an RF input signal in the 3.7-4.2 GHz (C-Band) satellite band. Two-way split, rugged construction, female type "N" connectors, D.C. passive are standard features.

GENTNER

GENTNER PROGRAM SWITCHERS



Gentner Program Switchers give you a simple, reliable way to switch sources such as on-air audio, tape machines, computer printers, telephone lines and more. They are passive (using sealed, socket-mounted magnetic latching relays), so you get instantaneous, noise-free selection of a source—and it will stay selected even in voltage fluctuations or total power failure.

The **10A (stereo)** switcher selects ten stereo channel sources to a stereo channel output; the **20A (mono)** selects twenty mono channel sources to a mono channel output. Connection to your equipment is accomplished via punch block cables available as accessories.

Contact Allied For All Gentner Products

MONROE

MONROE REMOTE CONTROL



The **Monroe Model 5002 Remote Control** provides remote control channel selection of two dual audio modules or voice cue modules for the Scientific Atlanta Model DAT-32[®] and the Fairchild Dart-384[®]. It also will permit remote transponder selection for the Fairchild Dart-384. Model 5002 includes an integral telephone line interface and utilizes DTMF signalling to permit access and control from any Touch-Tone[®] telephone. A two-wire, 600-ohm balanced audio input permits access and control from a non-switched communications path. Tone responses are returned to advise the calling party that the remote control sequence has been accepted. The remote control retains the channel configurations in memory during power interruptions and returns to these configurations when power is restored.

Call Allied For Full Details

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