



Delete & Reinsert TV channel

Deletion filter cuts old channel, plus a bandpass filter for the new channel, replace 1 channel on Cable TV system



\$599
FILT-CCTV-* see page 6

ANALOG demodulator & modulator

Keep it simple and low cost, add channels to your cable TV system



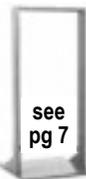
modulators
starting at **\$118** see page 4

Amplifier for 54-1000 Mhz

Wall mount +30dB amplifier for cable TV channels



\$199
AMP30-1000 pg 3



see pg 7

Equipment Rack
\$159
PMOR71

Equipment rack to mount 19" wide components, front pair of untapped rack rails. No side panels or side frame.

Signal Level Meter for Cable TV

Portable signal analysis meter for Cable TV channels. Full-channel operation 5-870MHz



HandyMeter-Pro \$633 see pg 7

"Reasonable prices, priceless reasoning"



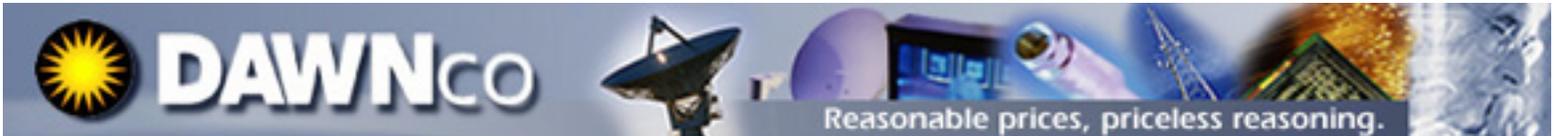
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Broadband Products Multi-Channel Delivery Antennas • Encoder/Decoder

Broadband



QAM modulator for DIGITAL cable TV

Hand a TV channel to the QAM modulator as ASI, to convert to a "digital" channel on cable TV. Tune the output channel in 54-860 Mhz range.

QM45 \$744



see page 5

Encoder for CableTV plus QAM modulator, 2 channel

Dual Channel High and Standard Def MPEG 2 encoder with built-in QAM modulator and agile RF up-converter. Auto detects two channels of high definition video and PCM or Compressed Dolby audio via HDMI 1.3.

ENC-H2Q-HDMI \$6499



see page 8

Decode MPEG2/4 & DVB-S2 channels, SAT or IP input RECEIVER-DECODER for HD & SD

This unit is loaded with all of the features you need for HiDef, and your company's budget bosses will appreciate the price.

Utilize L band input for satellite channel reception.

Use GigE input for decoding MPEG2 or MPEG4

SD & HD Decoder
#D5502 \$2199



see page 5

BROADBAND PRODUCTS: multi-channel delivery equipment to encode / decode & send TV channels over long distances

In today's digital world, establishing and maintaining solid television connections 24/7, 365 days a year takes an enormous amount of time & effort. At DAWNco, we have the expertise and the equipment to make that job easier and more economical. DAWNco, your 1-stop resource for clear TV communications.

DAWNsat.com SATELLITE Products Catalog

See both small and large satellite dishes, LNBS, receivers, amplifiers, splitters, and meters.



DAWNfiber.com FIBER OPTIC Products Catalog

See TX & RX units to pass a/v, cableTV, satellite and data.



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Broadband Products Multi-Channel Delivery systems DAWNbroadband.com



DAWNco



Reasonable prices, priceless reasoning.

Off Air Antennas Yagi & Log Periodic Bandpass Filter • Preamp

Bandpass Filter for VHF or UHF

Single channel UHF or VHF bandpass filter designed to pass a specific channel and attenuate all other frequencies. Take 1 channel from an off air antenna, & place into internal cable TV system. Filter out interfering channels

pass FM band OAFILTER-FM \$99 pass 1 VHF channel OAFILTER-V* \$99 pass 1 UHF channel OAFILTER-U* \$119



Preamp for VHF

Boost signal levels from off air antenna, by mounting amp outside. Choose whether to amplify 1 VHF channel, or all VHF channels. Using 1-channel amp will minimize risk of injecting an interfering channel into an internal cable TV system. Indoor power supply is provided, sending power to outdoor amp via coax

amp 1 VHF channel, 20dB Gain OAPREAMP-VHF* \$225 amp all VHF channels, 20 Gain OAPREAMP-VHFbroad \$188



Preamp for UHF

Build your internal Cable TV system by starting with local channels that are received on an off air antenna. Choose whether to amplify 1 UHF channel, or all UHF channels. Boost signal levels from off air antenna, by mounting amp outside by antenna.

amp 1 UHF channel, 20 dB Gain OAPREAMP-U* \$299 amp all UHF channels, 20 dB Gain OAPREAMP-UHFbroad \$228



COMBO preamplifier for both UHF & VHF

Use this amp when you have one UHF/VHF antenna that is receiving all of the local channels on your TV wiring system. Place amp at antenna

OAPREAMP-UVbroad \$186



NATIONAL WEATHER antenna for EAS off-air

Reliable high-gain antenna to receive signals from national weather service, carrying EMERGENCY ALERT signals, to send to an EAS receiver.

OA-EAS1 CALL



Antenna mount

Non-penetrating roof mount with four trays to stack ballast onto, and 3.5 inch OD pipe extending up. Mount antenna on pipe

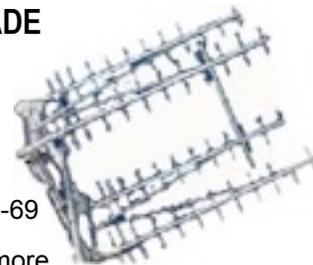
NPRM-D24D27-3.5PIPE \$599



HIGH GAIN • COMMERCIAL GRADE UHF 1-channel off air antenna

Yagi type antennas have the highest gain for a given element count. Customer specifies channel within 14-69 range. To receive weak channels, purchase higher gain antennas with more elements. For ice protection, we utilize heavy duty construction with "Solid-Bar" elements.

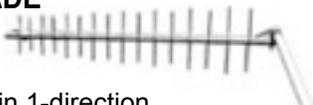
14dB Gain/12 element CALL UYAG12-1* 20dB Gain/48 element CALL UYAG48-4* 23dB Gain/96 element CALL UYAG96-8-*



HIGH GAIN • COMMERCIAL GRADE UHF multi-channel off air antenna

Log periodic antennas will receive all channels in the specified band. For channels 14-69 choose a UHF log with the gain you need. To receive weak channels, purchase higher gain antennas with more elements. For ice protection, we utilize heavy duty construction with "Solid-Bar" elements.

12dB Gain / 16 element CALL ULOG16-1-14x69 17dB Gain / 64 element CALL ULOG64-4-14x69



Within 1-direction

Unsure what size antenna you need? Call for FREE survey

Mounting to pipe bigger than 1.5" OD? Ask for OVERSIZED hardware

VHF 1-channel off air antenna

Customer specifies 1-channel within the VHF band. To receive weak channels, purchase higher gain antennas with more elements.

15dB Gain/12 element VYAG12-1(7-13)* CALL 18dB Gain/24 element VYAG24-2* CALL 20dB Gain/48 element VYAG48-4* CALL



VHF multi-channel off air antenna

Within 1-direction Log periodic antennas will receive all channels in the specified band. For VHF channels, choose a VHF log with the gain you need.

chan 2-6 / 9dB Gain VLOG8-1-2-6 CALL chan 7-13 / 12dB Gain VLOG12-1-7-13 CALL



FM antenna

Yagi antenna for the reception of FM radio band (88 to 108 Mhz). Heavy duty construction with 8 or 16 or 32 elements (16 and 32 are in multi-bay configuration). "Solid-Bar" elements, for extra protection in ice conditions

13 dB Gain/8 element VYAG8-1-FM CALL 20 dB Gain/32 element VYAG32-4-FM CALL (also see amp #FMS-ONLY)



Signal Splitter, 5 to 1000 Mhz

RF signals come in on 1 F connector, and same signal out on multiple outputs

2-way DSU2 \$7 8-way DSU8 \$9 (order in 5 packs)



Directional Coupler / 4x Tap

RF signals come in & out on thru path. Same signal out on multiple tap-offs, with specified attenuation

4-tap-off, #TSC4SB-* \$10 choose tap value: 8,12,16,20,24,30



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TV Channel Amps & Combiners Many Channels on One Cable Boost Signal Level

AMPLIFIER for TV channels +30 dB forward 54-1000 MHz

push-pull amplifier produces signals with extremely low distortion and harmonic content. The rack mounted amplifier makes an excellent headend launch amplifier to be fed into a headend combiner.

"wall mounted"
AMP30-1000 \$199

"1U rack mounted"
AMP30RK1000 \$233



\$566
AMP1000-2X-30

WALL MOUNT AMP for TV channels +30 dB forward 54-1000 MHz +20 dB reverse 5-36 MHz

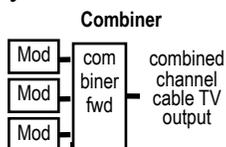
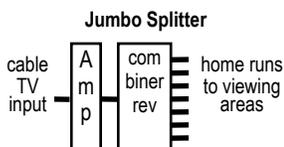
±0.75dB flatness for excellent frequency response. Dual push-pull hybrid amp technology for very low distortion, high input and output capability. Gain and slope system balancing for minimum distortion. -30dB input and output test points enable simplified setup.



AMPLIFIED combiner Combine outputs from several modulators that each contribute separate channels to a multi-channel Cable TV system. Built-in amplifier to overcome loss of combining, with zero through loss. Pass 54 to 860 Mhz (or 550 Mhz)

Description	Splits	Frequency	Part No.	Price
Amplified combiner	16x1	to 550 Mhz	AC16-550	\$209
Amplified combiner	16x1	to 860 Mhz	AC16-860	\$299
Passive combiner	12x1 or 1x12	to 1000 Mhz	PC12-1000	\$88
Passive combiner	24x1 or 1x24	to 1000 Mhz	PC24-1000	\$99
Passive combiner	24x1 or 1x24	to 1000 Mhz	PC24-1000HQ	\$199

PASSIVE combiner, can be used as "jumbo" splitter
COMBINER-USAGE Combine outputs from several modulators, each contribute separate channels to a multi-channel Cable TV system. Some insertion loss.
SPLITTER-USAGE: Use a combiner in reverse, plus one #AMP30RK1000 (purchased separately), to create a rack mounted splitter with many outputs. Amp can be set for 0 to 9 dB gain through splitter. Feed individual Cable TV viewing areas from one central location, with "home-run" coax runs to each TV. Makes for easy upgrading and trouble-shooting of a small Cable TV distribution system.



3-band level adjust for proper channel mixing BROADBAND AMPLIFIER easily turn OFF AIR TV into CABLE TV

Use this amp with an input from a Combo VHF/UHF antenna, or from separate UHF and VHF antennas. Clean-up and balance a selection of local off air channels, to insert them into internal Cable TV wiring system. Individual adjustment of gain-attenuation-slope for these three bands: 54~108MHz (Ch 2-6/ FM Band), 174~216MHz (Ch 7-13), 470~806MHz (Ch 14-69). 52dB high gain typical, provides excellent carrier to noise performance for superior picture quality.



AMP52 \$239

RACK MOUNT AMP for TV channels +30 dB forward 54-1000 MHz +20 dB reverse 5-36 MHz

overcome combining losses and provide ample level for distribution, 20dB active reverse-path gain for extra level to distribute reverse path signals (such as cable-modem-data) and other applications, Adjustable gain and slope controls to optimize carrier-to-noise ratio and provide superior picture. Built-in lightning and line-voltage surge protection safeguards the unit from damage



\$622
AMP1000RK-2X-30

Distribution Amplifier +25dB

Fixed gain for these three bands: 54-300 Mhz @ +25dB gain, 300-806 Mhz @ +22dB gain, 890 Mhz @ +18dB gain. Noise figure 6dB for VHF and 7dB for UHF



\$29
AMP25

550 Mhz Amplifier +45 dB

push-pull amplifier for 54-550 Mhz, rack mounted, can be used as launch amplifier to be fed into a headend combiner.



\$244
AMP45RK550

Amplifier for FM band

+55 dB gain for 88 to 108 Mhz FM band. Internal band-pass filtering for superior adjacent channel performance



\$150
FMS-ONLY
(also see filter #BANDPASS-FM)

BTSC Stereo Encoder

attaches to modulator input. Stereo encoder transforms baseband left and right stereo audio (from source such as sat receiver) into composite BTSC signal for modulator



CALL
STEREO-UPGRADE-MOD

2x1 SWITCH for RF and IF

Switch activated by RF-IF sensor, auto- switches to 2ndary path upon loss of sync pulses on primary video modulated RF carrier input, remains in 2ndary position until primary carrier sync pulses return



\$369
SWITCH-625A

Push-button A/B switch

Manual selector switch for RF signals, 2 'F' in and 1 'F' output, A/B selection via finger, 5-1750 MHz frequency range



\$20
PAB2

Channel Combiners and Signal Splitters



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ANALOG Channel Processing Demodulator • Modulator

convert analog RF channel into a/v ANALOG DEMODULATOR

Tune analog NTSC type of off-air or cable TV channels, convert to baseband analog a/v for insertion to CableTV system. MiniMod card style, to fit up to 10 cards in one 2RU chassis. Analog AV output to feed into ANALOG modulator. **PCD806 \$169**



purchase **CHASSIS & PowSup** separately

CALL for best pricing on FULL SIZED 19" demodulators

place analog a/v onto Cable TV channel ANALOG MODULATOR

Hand a channel to the ANALOG MODULATOR as baseband analog a/v, and place it on cable system as analog TV channel. Agile selection of output channel. 16 cards fit in one 2U chassis. 45dB output



fixed **\$118**
PCM45*

thumbwheel agile **\$209**
PCMA860-econ
tune channel within 54 to 860 MHz tuning range
GOOD SPECS

LED screen agile **CALL**
PCMA860-HQ
tune channel within 54 to 860 MHz tuning range
BEST SPECS

a/v input • analog TV channel output ANALOG MODULATOR - good quality

Good quality unit to add channels to an in-house cable TV system. SAW filtered IF for good adjacent channel performance. BTSC Stereo Compatible pre-emphasis disable switch provides pass-thru for stereo signals. Adjust to +55 dB output level. Call for help choosing the FACTORY PRESET CHANNEL NUMBER you need



fixed **\$117**
CM55SAW*

fixed **\$188**
CM55-SUBT*
specify 1 output channel in 5.75 to 43 MHz range (sub channel T7- T13)

fixed **CALL**
CM55-860SAW*
specify 1 output channel in 552 to 860 MHz range, GOOD SPECS

best quality a/v input analog TV channel out ANALOG MODULATOR

Re-broadcast quality with very good carrier-to-noise performance (>65dB) ensures superior picture quality. PLL design for solid drift-free operation. SAW filter for best adjacent channel operation. Option for integrated BTSC stereo. Composite and separate audio and video IF loops allow compatibility with encoders, ghost cancelers, and video override. Adjust to +60 dB output level.



fixed **\$499**
MF860*

agile **\$880**
MA860
tune channel within 54 to 860 MHz range
BEST SPECS

agile **\$1099**
MA860S
w- BTSC Stereo
tune channel within 54 to 860 MHz range
BEST SPECS

FM MODULATOR convert stereo audio into FM channel

Agile output selection of audio channel in FM band (88- 108 MHz). Signal to noise ratio >60dB provides top sound quality. Output level +35 dB

MOD-AGILEFM \$279

DIGITAL Channel Processing 8VSB Demod • QAM Modulator

Tune 4 off air 8VSB channels

4-Channel DIGITAL DEMOMULATOR 4 separate A/V outputs

Compact design with 4 Independent Decoders in 1U Chassis. Decode 8VSB or QAM channels in 54- 860 MHz range. Supports EIA-608 Closed Caption.



4-channels
#MD4 \$950

Tune off air 8VSB channels Processor for DIGITAL channel Output cable TV 8VSB

DIGITIZE your CableTV system. 1-box does everything. Agile selection of off-air INPUT channel and OUTPUT channel



\$733
SP806-DIGITAL

Tune block of sat QPSK/8PSK channels Transmodulator for DIGITAL channels Output block of cable TV QAM

QAM turbo TRANSMODULATOR tunes & demodulates QPSK/8PSK sat signals in DVB-S, DVB-S2 modulation including DISH Turbo FEC. Outputs 4 or 8 of SD or HD video in 4 or 8 QAM-RF Channels. IP based remote PC configuration for simple local and remote operation.



#TC4 \$1799
4-channels
#TC8 CALL
8-channels

Convert RF channel into DIGITAL T/S 8VSB DEMODULATOR

Agile tuning of a digital channel in 8VSB or QAM format, to prepare for insertion to CableTV system. MiniMod card style, fit up to 16 cards in one 2RU chassis. Choose analog AV output to feed into ANALOG modulator. Choose ASI output to feed Digital T/S to DIGITAL QAM modulator. Each chassis needs one #PDCPS controller & power supply.



Demod w-A/V out #PD10 \$440
Demod w-ASI out #PD10-ASI CALL

"controller & power supply" PD-CPS \$466

purchase **CHASSIS & PowSup** separately

ASI Mux, 4 into 1

Up to 4 MPEG2 or DVB transport streams to be combined on 1 ASI output. Inputs may be single or multiple program streams. Output is single or multiple program transport stream of up to 100 mbps in DVB-ASI format.



\$1599
MUX-ASI-41

QAM Mod - place DIGITAL T/S onto Cable TV channel

Hand a TV channel to the QAM MODULATOR as ASI or SMPTE-310, and it will put the digital T/S onto a cable TV channel. Built-in agile UP converter to select one output channel in 54 to 860 Mhz range (2~135). Up to 8 cards in one 2RU chassis. Complies with DVB ASI standard. 45 dB output



QM45
\$744

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Receiver/Decoder Video & Audio • SD and HD

DIGITAL DEMOD for HD & SD

Tune 1 off air 8VSB channel



Output: a/v, ASI, SDI, HDSDI Demod tunes digital channels in the 8VSB or QAM format, & processes them for BROADCAST QUALITY applications. All 18 ATSC formats are supported: 1080i, 720p, 480i, 480p. Modular device that has slots for a wide variety of optional outputs, including HDSDI digital video with embedded audio, and GigE output. Optional web browser control via IP.

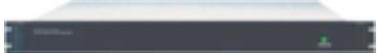
Main unit w-Baseband a/v out
VM150-MAIN-RF1-V1-A4 \$2291

Add HD/SDI CALL VM150-V6 **Add SDI CALL VM150-V3** **Add ASI in/out CALL VM150-T1**

Tune 4 off air 8VSB channels

4-Channel DIGITAL DEMOD

1 combo GigE output



Demodulates 4 user selected RF input channels, extracts digital MPEG2 transport streams from each of (4) 8VSB channels, generates MPEG2 over IP signal on GigE output

#VM3300 \$7K

Decoder for MPEG2/4 with IP input



Decodes both MPEG2 and MPEG4 to produce a single channel with these outputs: (2) a/v, (2) SDI with embedded audio. Has Dolby AC3 pass-thru. **OPTIONS: ASI i/out, MPEG IP out, redundant IP-in** **Main unit with IP input D5502 \$2199**

Static PSIP Generator



For identification data to accompany a digital video channel, with System Time Table & Rating Region Table & more. Rack mount 1RU. Static PSIP Generator, STT (System Time Table), RRT (Rating Region Table), TVCT (Terrestrial Virtual Channel Table) or CVCT (Cable Virtual Channel Table), first four elements of EIT.

#PG100 CALL

Chassis & Power Supply

16 slot chassis comes with PowSup occupying 4 slots. Has 12 slots available for devices. 2U chassis fits 19 inch rack.

16 slot chassis-only, \$119
PC12C



Standard Power Supply replacement unit, uses 4 slots
PC-PSF12-16 CALL

BLANK PLATE Fill empty space in chassis
PC12-BLANK \$17

Universal Chassis & Redundant Power Supply

2U high, 12 slots available & 2 PowSup

Replacement Hot Swap Power Supply PCHSS \$220



Redund PowSup Upgrade Kit #PCHSR \$466

\$640 16 slot Chassis & Power/Cooling Combining System
PC16PS-CS

2U Chassis has top mounted 1U separate power supply with special integrated fan and 16x1 combiner

Cooling system & power supply combo, for chassis \$159 #COOL-COM

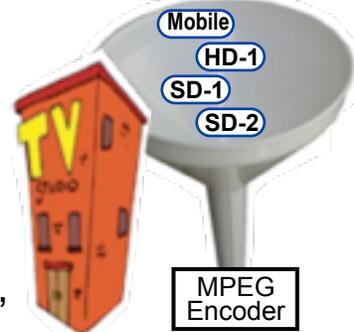


Encoder for CABLE TV plus QAM modulator, 2-channels

Dual Channel High and Standard Definition MPEG 2 encoder with built-in QAM modulator and agile RF up-converter. Auto detects two channels of high definition video and PCM or Compressed Dolby audio via HDMI 1.3. Encodes video to HD MPEG 2 Transport Stream, passes Dolby audio (AC3 or 5.1) or encodes PCM to Dolby AC3. Supports closed captioning. Provided two DC 5 Volt power jacks for external Component or SDI to HDMI converters.



\$6499
ENC-H2Q-HDMI



"Call for help selecting the exact encoder for your needs"

For DSNG and "live" video transmissions ENCODER for MPEG4-AVC HD & SD Low Latency



ENCODER hardware and software, capable of encoding MPEG4 AVC SD and HD, with LOW-LATENCY characteristics that are ideal for DSNG and other live events. Elipse Encoder standard Pkg, with 1RU chassis and internal power supply. Includes firmware for Elipse platform, enabling output of one MPEG-4 AVC channel in High Definition 1080i or 720p format. This option also enables output in MPEG-4 AVC Standard Definition format. Standard package provides both ASI output and IP output. **OPTIONS: On board modulation for L Band output or IF output.**

#ELP1-AVC-HD only \$19K



best value ENCODER MPEG2-420-SD make a/v into DIGITAL T/S



Up to 8 cards fit in chassis

Input baseband a/v from local source, such as camera, vcr, or sat receiver. ASI output to feed directly to DIGITAL QAM modulator, or ASI to separate "MPEG Multiplexer" to select & arrange the digital T/S to be placed on a cable TV channel. Card & chassis style of encoder, can hold 8 encoders in 2U rack space. Chassis & power supply purchased separately.

a/v input , ASI output #PMEC \$877

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Encoders & Decoders Multi-Channel Delivery Equipment Antennas • Encoder/Decoder

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Broadband Products Filter • Switch • Monitor

pass selected channel **BANDPASS FILTER** block all other channels



Pass a customer specified Digital Off Air channel, or Cable TV channel, and reject all other channels. Suppress strong adjacent channel interference while maintaining low insertion loss in the passband.

GOOD quality pass 1 TV channel within 54 - 414 Mhz range
BANDPASS(54-408MHz)* \$185

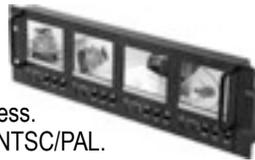
GOOD quality pass 1 TV channel within 300-804 Mhz range
BANDPASS14584D.* CALL

GOOD quality pass only the FM radio band (88 to 108 MHz)
BANDPASS-FM CALL
(also see filter OAPREAMP-FM & amp #FMS-ONLY)

When do you **CALL** for a **HIGH quality** "custom" filter?
When you have strong close-adjacent channel interference

QUAD color LCD monitor

3U swivel chassis, 4 high performance 4 inch color LCD monitors (480 x 234 pixel active matrix), individual controls for color, tint, contrast, & brightness. Auto source recognition for compatibility with both NTSC/PAL. Composite and S-video inputs, with impedance match switch.



MONITOR-4LCD-3RU \$1699

TIMER-BASED 2x1 switch for a/v

Balanced stereo audio follow video switching by timed commands. The unit allows six on/off commands with selectable block program variations for quick and simple programming. **"wall mount"** **"2U rack mount"**



SWITCH-631 \$484 SWITCH-R157A \$583

CHARACTER GENERATOR for text channel on Cable TV

Show page-after-page of text, video, & graphics. Includes PC page layout software for user to create unique attention-grabbing pages, which can even feature motion video on top of text page. OPTION local weather sensing.



KMX1 CALL

Weather Monitor for TV TEXT CHANNEL

Local weather sensing and display system, including rooftop mounted sensors with wireless connection to MX1 character generator. Character generator purchased separately.



KMX1-WWI CALL

CHANNEL DELETION FILTER remove one selected channel

Choose filter with pass-band range that will pass your highest channel. Filter rejects one customer specified 6 MHz wide TV channel, and passes all others up to the specified top frequency. Up to 3 dB insertion loss with some added attenuation on adjacent channels. 19" rack mount.



HIGH quality (sharp) delete 1 TV channel within 54 to 88 Mhz range
"Filter" **FILT-3272-54x88.* \$588**
(pass to 750MHz) **CALL** for other channels



GOOD quality delete 1 TV channel within 5 to 550 Mhz range
DELFILT550* \$299

GOOD quality delete 1 TV channel within 54-750 Mhz range
DELFILT750* CALL

GOOD quality delete 1 TV channel within 5 to 860 Mhz range
DELFILT860* CALL

Upgrade pass-band to 1000 Mhz "extender" **FILT-EXTEND-X CALL**

Want to delete a **RANGE** of several channels?
Call **DAWNco** for a "custom" filter made to your requirements

When do you **CALL** for a **HIGH quality** "custom" filter?
When you have strong close-adjacent channel interference

HQ sharp DELETION filter -plus- BANDPASS filter replace 1 channel on Cable TV system

Rejects a 6 MHz wide TV channel (customer specify one channel in 2-6 or 14-22 range). Passes all other channels from 5MHz to 1000 MHz. Some added attenuation on adjacent channels. Panel mount. Also provides **BANDPASS FILTER** for re-insertion of new desired channel. Options: Rack mount, AC/DC pass through, passband to 1GHz.



1-channel in 54 to 174 Mhz range
FILT-CCTV.* \$599

1-channel in 175 to 300 Mhz range
CALL FILT-CCTV.*

for adding channels on top **LOW-PASS FILTER**

Pass frequencies up to ch__, and block ch__ and above (customer specifies channels to pass and stop). This is a super-sharp "Brick Wall" filter, which does not require sacrificing a channel as guard-band.



LOWPASS-6211* CALL

2x1 SWITCH for audio follow video

Stereo a/v switch for automatic 2X1 balanced stereo audio-follow-video switching. Responds to contact closure, or a transistor switch to ground, or compatible logic level.



2x1 model \$199
SWITCH-627A

2x1 SWITCH for loss of VIDEO sync

switch monitors the loss of composite sync pulses on the primary video input. Switches to the secondary video input upon loss of sync pulses. Remains until the primary video returns, causing switch back to the primary video input.

2x1 model \$329 ten 2x1 in 2U rack **\$2777**
SWITCH-624B **SWITCH-R192**

Four 2x1 Switches for a/v and RF

balanced stereo audio follow video relay switches. Controlled by separate program timers, or remote controls or CATV Cue Tone® receivers via contact closures or logic inputs. IF/RF 2x1 switch to 950MHz

SWITCH-R165A \$744

1x4 Distribution Amp, video & audio

stereo audio & video amplification for distribution to 4 separate locations. Video bandwidth > 50 MHz. Use for distribution of composite video signal



\$524
AMP-629

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Tools & Test Equipment Enclosures • Racks

EQUIPMENT RACK holds equipment securely

Start with the heavy duty steel rack, in the height and RU count you need. Then choose from a variety of options: side panels, vented top, pedestal, tapped rack rails, cooling fan, shelves, blank panels, and anything else you need. Call for help

78 inch Rack \$799 90028	Side Panels \$299 pair 90129	Door \$159 90318	Top Fan CALL G9085
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OUTDOOR ENCLOSURE Rack Mount Equipment Outside

Heated & Cooled Wall mounted enclosure with Heater & AC for temperature stabilization, swing out 14RU rack. An above ground housing to shelter environmentally sensitive equipment from rain, sleet, snow, dust, driving wind, hail, corrosion, and vandalism.



CALL
FWM302424R-HEATcool

Crimp tool for RG11 & RG6

This is the proper tool for good RG6 and RG11 connections. Crimp tool with 2 hex sizes: .475 & .324, plus center pin crimper. Ask about jacket stripper tool.



CT611 \$89

Outdoor box

16H x 14W x 7D space inside for equipment mounting, protects against moisture ingress.



FWM000-NEMA4X \$199

Economical "Relay" Rack

Equipment rack to mount 19" wide components, front pair of untapped rack rails. No side panels or side frame.

"71 inch High"
PMOR71 \$159

"36 inch High"
PMOR36 \$133



Rack Shelf holds "set top" devices

Attach shelf to 19" rack rails, position set top devices vertically in rack.

"Hold 6" \$75
PMOR-S6

1 shelf for bottom only support, 2 shelves for top & bottom support



"Hold 8" \$77
PMOR-S8

RACK SHELVES
Horizontal shelf, 19"L x 18"D x 3.5"H, vent grid for air flow
#86071 \$69



BLANK PANELS
Fill in empty rack space, 1U high for 19" rack, pick color
"grey" #85140 \$20
"black" #99140 \$20



Outlet strip, vertical 22 outlet

Reduces wiring clutter for power cable routing of up to 22 devices. 15A breaker

\$99
OS22HD



Outlet strip, horizontal 10 outlet

1U power strip for use with in equipment racks. Built in surge suppresser

\$99
QRPS-10out-1RU



Measure Analog & QAM cable TV DELUXE signal level meter

Portable signal analysis meter for Cable TV channels. Full-channel operation 5-870MHz (Channels 2-134). Extra large LCD display to view signal characteristics. Features: Digital or analog measurement available in one instrument. Supports Annex A (16, 32, 64, 128 and 256) and Annex B (16, 32, 64, and 256) QAM modes. Leakage measurement in the spectrum mode or frequency mode if the exact frequency of the leakage is known. All channel range from channel T7 to 135 (5- 860MHz). Multi-function digital or analog signal analysis includes all pertinent channel and system-wide information

HANDYmeter-Pro-QAM \$1299



Measure Analog & QAM cable TV STANDARD signal level meter

Portable signal analysis meter for Cable TV channels. Full-channel operation 5-870MHz Frequency Range (Channels 2-134). Large LCD display to view signal characteristics.

HANDYmeter-Pro \$633



RACK & CARRY Spectrum Analyzer

Unique rack-mounted spectrum analyzer has internet remote-view for regular performance monitoring from any PC. Push quick-release on rack mount and quickly stuff unit into the included padded carrying case, for temporary portable usage at dish site. Frequency coverage from up to 2150 Mhz in 4 bands. No display screen. Use ethernet port for remote monitoring via internet or other IP connection. Includes LABVIEW software for PC at remote site to view all functions on Spectrum Analyzer. Comparison of satellite carrier levels, with adjustments for band, span, and reference level.

APRSA2150C1C-1IN \$3399
Satellite L band for 950-2150 Mhz

APRSA2500C-1IN \$3899
Cable & OffAir & Sat band for 5-2500 Mhz



Rack Mounted 16x1 INPUT SELECTOR

Place in front of spectrum analyzer. Remote monitor all your RF feeds, all of the time. Remote control software included. Specify switch for satellite L band, or for CableTV band

SFS16X1-with-Software \$899



Spectrum Analyzer Diagnose Signal Problems

call DAWNco
800-866-6969
248-391-9200

Over 1000 items at
www.DAWNco.com **broad 7**

Pictures & Spec's

SPECIAL PRICES until July 31,'13 while QTYs last



DAWNco

Broadband Products

Reasonable prices, priceless reasoning.



CABLE TV on fiber

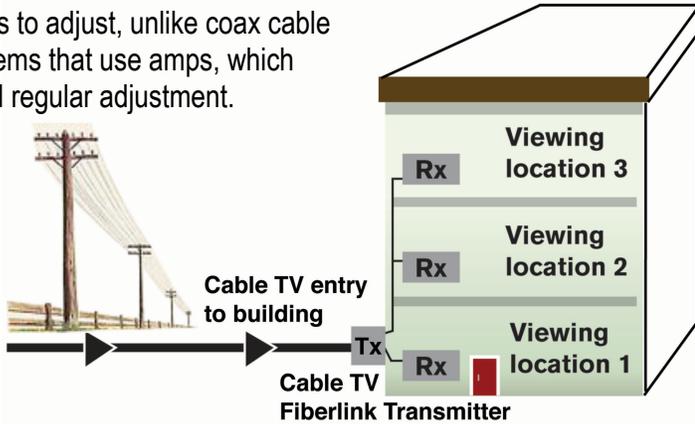
Pass 100+ TV Channels on fiber

Eliminate Cable loss Problems

Use CABLE TV on fiber

when distance is 500ft to 50 miles

LONG DISTANCE advantages: Combine dozens of analog and digital channels within 50 to 870 Mhz band, and pass combined channels over one SM fiber over long distance (up to 50 miles).
SHORT DISTANCE advantages: Split the optical output from TX unit, and run fiber to RX units located in far corners of the building. Feed dozens of TV's in each viewing location.
TROUBLE-FREE OPERATION with no amps to adjust, unlike coax cable systems that use amps, which need regular adjustment.



Fiber Optic Cable for long distances

Pull-it-Yourself • Factory Connectorized

EXAMPLE: 800ft roll of 6-strand SingleMode fiber, both ends prepared with staggered SC/APC connectors, waterproof pulling eye on 1 end, standard pull eye on other. **\$1199** #SM6io-SCA12-WtDr-800

We'll make the exact fiber cable you need. Tell us the # of strands & length.



Protective Pulling Eye see pg 5

DIGITAL DEMOD for HD & SD

Tune 1 off air 8VSB channel

Output: a/v, ASI, SDI, HDSDI Demod tunes digital channels in the 8VSB or QAM format, & processes them for BROADCAST QUALITY applications. All 18 ATSC formats are supported: 1080i, 720p, 480i, 480p. Modular device that has slots for a wide variety of optional outputs, including HDSDI digital video with embedded audio, and GigE output. Optional web browser control via IP.

Main unit w-Baseband a/v out
 VM150-MAIN-RF1-V1-A4 **\$2291**

Add HD/SDI CALL Add SDI CALL Add ASI in/out CALL
 VM150-V6 VM150-V3 VM150-T1

See policies at DAWNco web site. Prices & product details subject to change at any time, without notice.

call DAWNco
800-866-6969
 248-391-9200



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SEPARATOR & COMBINER for cable TV return path

SEPARATOR: isolates Sub-Band (5~42MHz) from CATV/UHF/ VHF (54~1000MHz) signals, providing for clean insertion into devices.
 COMBINER: Filters and mixes Sub-Band and CATV/UHF/ VHF signals into single output..



\$29
DIPLEXER-SUB-CATV

CABLE TV on fiber - Rack Mounted TX, wall mounted RX

Put cable TV channels onto one singlemode fiber, for transport over long distances, and to feed many viewing locations without need for RF amplifiers. Rack mount unit for analog and QAM digital applications. Optical power monitoring of input RF and laser status. RS232 port. Manual or automatic gain controls for RF input level. INPUT: 45-860 MHz on 'F' connector. OUTPUT: 1 Single Mode fiber via SC/APC connector. Transmitter optical loss budget (OLB) choices (in dB): 8, 10, 11, 12, 13, 14

Tranmitter, 6 dB value,
 IN: 45-860 Mhz on F conn,
 OUT: 1 singlemode fiber
 FBS-870F6T **CALL**
Tranmitter, 8 dB value,
 IN: 45-860 Mhz on F conn,
 OUT: 1 singlemode fiber
 FBS-870F8T **\$1777**



CABLE TV fiber TRANSMITTER

specify optical loss budget
 OLB: 8, 10, 12, 13, 14, 16
 FBS-872F8T **CALL**

CableTV Fiber RECEIVER - Mini

Optical forward path receiver with Bi-directional operation. Forward bandwidth from 54~1000MHz (analog & digital) and reverse bandwidth from 5~42MHz

FBS-870R-WALL-econ \$399

Rack mount shelf #PMORS \$55

CableTV Fiber RECEIVER Outdoor Node

Weather-resistant case enables use in extreme temps. Forward 54~860 MHz; return 5~42 MHz. Option for bi-directional usage

\$777
FBS-870R-NODE2



CableTV Fiber RECEIVER - Mini HQ

Optical forward path receiver with Bi-directional operation. Wide optical window (-6dBm to 3dBm) for excellent forward operation at low optical input levels. (limited availability)

CALL
FBS-870R-WALL-HQ



CableTV Fiber RECEIVER Outdoor Node w-Reverse

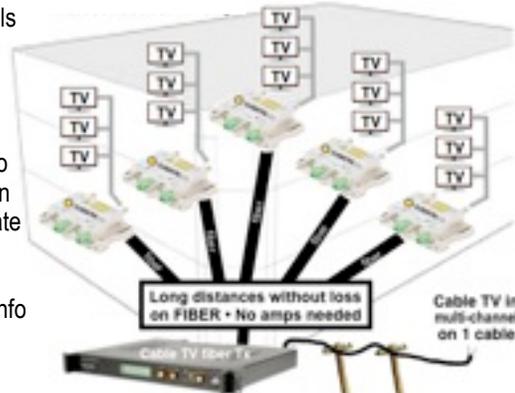
Optical forward path receiver with 4 outputs, plus Bi-directional operation. Broadband hybrid power doubler technology provides superior RF performance

CALL
FBS-870R-NODE4



Cable TV to MANY VIEWING AREAS without need for RF amps

Use FIBER to pass signals over long distances, or to distribute TV channels within a facility without using amplifiers. No ground loop problems. No distance limitations. When you use fiber, you eliminate problems that are associated with copper cable. Call DAWNco for info



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