



**"Reasonable prices,
priceless reasoning"**

1 Best HD grade LNBs. Upgrading your LNB is an easy way to improve digital receiver EbNo readings. Our top-grade units will improve your sat reception, especially when used with "finicky" new digital sat receivers • See page 8

CLNB20-PL02L \$299, C band BEST specs
KLNB.6-PL05 \$299, Ku band BEST

2 TI Filter blocks radar interference. Prevent signal outages effecting dishes located near airports, harbors, military bases. Block interference before interfering signals can enter the CLNB & degrade sat reception,
C-BANDPASS \$288, See page 8



3 FLEXtest • all frequency meter

Choose SAT module to ID satellite name & measure MPEG2/4 channel quality. Peak dish to boost EbNo performance. Optional rack unit can status monitor primary feed, auto-switch to backup upon failure
FLEXtest+SAT-module \$717



Option: Cable TV module, see pg 7

Top 3 Fast Fixes To Improve Satellite Reception LNBs • Filters • Sat Meter



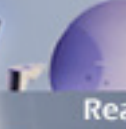
DAWNco

3340 S Lapeer Rd, Suite 200, Orion, MI 48359 • P 248-391-9200 • F 248-391-9206

Satellite & Fiber



DAWNco



Reasonable prices, priceless reasoning.

Visit DAWNco

**NAB show
booth #SU3406**

Las Vegas
April 2016

CableTec Expo

Philadelphia
Sept 2016

Improve SATELLITE reception with economical new ANTENNA

Improve your satellite reception even when you are on a budget! Our new P48 design gets you a commercial grade 3.7 meter satellite antenna for great C band reception, and its 4-petal fast-ship design keeps costs as low as possible. Our stationary 3.7 meter satellite antenna features precise-align reflector joining flanges to make installation simple, and for easy-carry to any dish location. Mount your new antenna onto an in-ground steel pipe, or ask us to provide a non-penetrating roof mount.

**3.7m stationary • fast ship
\$1999** D37F48-4PC-5.5

**4.2m stationary • high gain
\$4777** D42F48-8PC-6.6

**4.2m motorized dual-axis
\$6344** D42PMD60-8PC-6.6



see
page 2

4.2 METER high gain pipe-mounted antenna largest and highest gain dish that still mounts on a single pipe. Fast-delivery 8-petal ship-in-crate version. Fits onto a simply installed 6.6" OD pipe (option for surface mount on cement pad or non-penetrating roof mount). C band gain 43.5 dB, Ku band gain 53.0 dB

SATELLITE SIGNAL CABLE

"super-low-loss" for 300ft to 500ft runs

Improve signal quality on satellite downlink, by reducing loss on L band signal cable run from dish to building. Flexible coax passes signals to 3 Ghz. See page 5 for more

**\$1.29 per foot
DAWNflex.6QF**



Encoder / Modulator for A/V & HDMI input

1 Channel MPEG-2 encoding & full PSIP & EPG data generation, PID mapping for TV channel out.

SD QAM out #E2-1AV-1QAM \$677

HD QAM out #E2-1HDMI-1QAM \$1244

see page 4 for more encoders



Satellite Receiver / Decoder for MPEG4 and MPEG2 and DVB-S2

This unit is loaded with features you need for HiDef. Your company's budget bosses will appreciate the price. Backward compatibility for SD. SAT L band input, Output a/v, ASI, SDI, HDSDI. Ask about 422/GenLock option.

**SD & HD Sat Receiver
NEW low-price \$1588**

#D5500-IRD

Call for QTY discounts
see page 7



**Products to Improve
Satellite Reception
DAWNsat.com**

page 1

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www.DAWNco.com

Pictures & Spec's

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





DAWNco



Reasonable prices, priceless reasoning.

STATIONARY Satellite Antennas Lock dish onto one satellite

Small sat antennas: choose NonPen or Pipe mount

ALUMINUM PRIME FOCUS. Choose pipe mount and put the dish onto an in-ground pipe. With the Non-Penetrating roof mount (NPRM) version you place the dish on a roof or ground location, stack the ballast onto Non-Pen mount trays, and you're done. Economical 1pc reflector is great for high power Ku channel. PurchSep: feed&LNB

1.5m stationary alum PrimFoc, D15F-NPRM (or D15PLB-Pipe)

44.2 dB Ku gain, with 41" x 32" tray. Feed PurchSep

1.8m stationary alum PrimFoc, D18F-NPRM (or D18PLB-Pipe)

45.6 dB Ku gain, with 41" x 32" tray. Feed PurchSep

2.4m stationary alum PrimFoc, D24F-NPRM (or D24P39-4PC-3.5)

48.2 dB Ku gain. Dish & separate NonPen mount.

1.2m stationary fiberglass, P12FOS-LNBF-NPRM (or P12FOS-LNBF)

Offset, 42.0 dB Ku gain, with tray. Clamp for LNBF

1.2m stationary fiberglass, P12FOS-1K-NPRM (or P12FOS-1K)

Offset, 42.0 dB Ku gain, with tray. With 1-port Ku feed

1.8m stationary fiberglass, P18FOS-LNBF-NPRM (or P18FOS-LNBF)

Offset, 45.5 dB Ku gain, with tray. Clamp for LNBF

FIBERGLASS OFFSET. Reflector keeps snow off and maximizes performance. Choose pipe-mount or built-in non penetrating roof mount for fast install on any surface. Purchase separately the in-ground pipe & LNBS.



CALL or EMAIL to request price



Large sat antennas w-pipe mount

ALUMINUM PRIME FOCUS. Easy assembly and great performance with simple 1pc reflector (Option for easy-ship 4pc reflector). P48 polar mount with lock-bar for fixed use (add ActArm for motorized use). Feed PurchSep. Option for 6.6" OD pipe mount.

2.7m fixed or motorized alum PrimFoc, D27P39-4PC-3.5

4 petal dish, 39.6 dB C, 49.2 dB Ku gain, 3.5" OD pipe.

3.0m stationary aluminum PrimFoc, D30F48-4PC-5.5 \$1377

4 petal dish, 40.6 dB C gain, 49.9 dB Ku gain, 5.5" OD pipe.

3.7m stationary aluminum PrimFoc, D37F48-4PC-5.5 \$1999

4 petal dish, 42.3 dB C gain, 51.5 dB Ku gain, 5.5" OD pipe.

3.7m motorized polar alum PrimFoc, D37P48-5.5

1pc dish, 42.3 dB C gain, 51.5 dB Ku gain, 5.5" pipe.

3.7m motorized polar fiberglass PrimFoc, P37P

8 petal dish, 40.9 dB C gain, 50.7 dB Ku gain, 6.6" OD pipe.

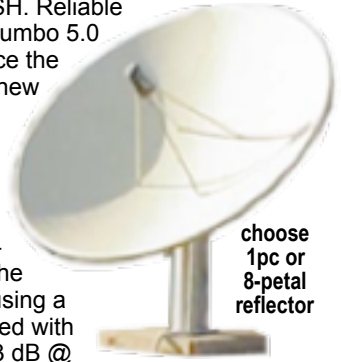
FIBERGLASS PRIME FOCUS. 8pc reflector ships anywhere. Durable fiberglass resists denting and is ideal for hail-prone areas. Galvanized steel mount is standard. Feed PurchSep. Fits onto 6.6" OD pipe.

CALL or EMAIL to request price



HIGH GAIN satellite antennas

5.0 METER KINGPOST MOUNTED DISH. Reliable satellite reception is achieved, with our jumbo 5.0 meter antenna. This big dish will produce the best C/N performance for your "finicky" new digital channels. The massive 16 inch diameter kingpost mount maintains proper reception in windy weather, and meets the tough new Florida 140 MPH windload requirements. Choose the easy-install 1-piece reflector, or the fast-delivery 8-petal ship-in-crate version. The 1 piece design is fast & easy to install, using a fraction of the nuts and bolts that are used with competing multi-petal dishes. Gain: 44.3 dB @ 4Ghz, 54.2 dB @ 12Ghz, mount onto cement pad



choose 1pc or 8-petal reflector

5.0 meter STATIONARY sat antenna 1 piece, D50FAE-GIB
top grade reception from one satellite, mount onto cement pad

CALL or EMAIL to request price

4.5 meter STATIONARY sat antenna 8 petal, D45FAE-GIB-8PC
Gain: 43.9dB @ 4Ghz, 53.3dB @ 12Ghz, mount onto cement pad

4.2 meter STATIONARY sat antenna 8 petal, D42F48-8PC-6.6 \$4777

best high gain reception without spending a lot, mount onto 6.6" OD pipe

4.2 meter MOTORIZED sat antenna 8 petal, D42P48-8PC-6.6 \$4999

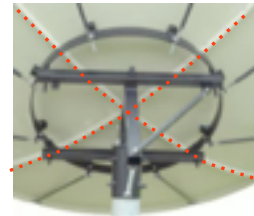
Gain: 43.5 dB @ 4Ghz, 53.0 dB @ 12Ghz, mount onto 6.6" OD pipe

MultiPetal Dish • STATIONARY OR MOTORIZED

P48 mount. Choose the MultiPetal dish and polar locking bar (P48) mount with 48" back ring, for stationary usage to receive from 1 satellite. P48 mount is easily upgraded at any time for 1-axis motorized usage, by adding an optional motor & controller, for push button reception from any satellite. P48 mount fits onto 5.5" OD pipe (option 6.6" pipe).

Easy-Ship 4 or 8 petal dish reflector. Great for roof-mount locations, sites that need fast delivery, and sites outside the continental USA. We are employing the latest manufacturing processes, to create the precise-align petals of the prime focus aluminum reflector. Accurately shaped reflectors start as 1-piece, then precision laser cutting technology is used to separate the reflector into 4 or 8 individual petals. Perfectly cut aluminum ribs are attached to the sides of each petal, with precisely aligned bolt holes that enable perfect reassembly.

SHIPPING METHOD for multi-petal antennas: Common carrier truck. Steel mount & 4 or 8 petal reflector inside crate. Unload with 4 people or forklift. PAD PREP: Ask us for cement pad construction document to give your local contractor.



Super HIGH GAIN 7.5 meter Easy-ship anywhere in the world

Choose our 7.5 meter antenna for reliable reception in areas that have weak signals, or when you need the highest assurance that reception will always be excellent.

Our reflectors incorporate precision stretch formed petals with very stiff backing structures. High wind rated to 125 mph (or more with hi-wind kit). C band gain = 47.9 dBi, Ku band gain = 57.0 dBi. Choose stationary or optional motorized mount.



New!

\$62K

#CH75FAE

"Great for Alaska, Hawaii, or other remote locations."

Controller for motorized dish



For DUAL AXIS motorized sat antenna w- 2-motor drive. #CONTROL-2000A
For SINGLE AXIS dish with 1-motor drive. #CONTROL-1500A

36 inch ACTUATOR & motor Super strong & reliable. Heavy-duty actuator arm, 1500 pound thrust rating, with 36vdc motor. #ACT3600-REEDA

CALL or EMAIL to request price

24 inch ACTUATOR & motor Get the best HD-grade actuator most important moving part on your sat dish. #ACT2400-REEDA



REMOTE OPERATION via INTERNET Adapter box for CONTROL-2000 position controller, sit at your desk and use web browser to cause dish movement. #CONTROL-2000-WEB



Ask about REPAIR parts

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page 2

Pictures & Spec's

SPECIAL PRICES until Sept 30,'16 while QTYs last

MOTORIZED Sat Antennas

Push-button to re-aim satellite antenna

Large prime focus aluminum sat antennas

GOOD 1-axis MOTORIZED using 1 actuator

Simple 1-axis polar mount to scan entire arc of satellites. Spun aluminum 1 piece or 4 petal or 8 petal reflector for optimum surface accuracy and high gain. Fits on 5.5" OD pipe (option for 6.6 pipe). PuchSep: controller, 1-ActArm, feed, LNBS, pad.

3.7 meter D37P48-4PC-5.5 \$1999 most popular size, Gain: 42.3dB @ 4Ghz, 51.5dB @ 12Ghz. 4-petal reflector.

4.2 meter D42P48-6.6 highest gain pipe-mount dish, Gain: 43.5dB @ 4Ghz, 53.0dB @ 12Ghz. 1pc reflector.

4.2 meter D42P48-8PC-6.6 \$4999 highest gain pipe-mount dish, Gain: 43.5dB @ 4Ghz, 53.0dB @ 12Ghz. 8-petal reflector.



CALL or EMAIL to request price

BETTER 2-axis MOTORIZED using 2 actuators

Perfect peaking with 2-actuator based dual axis drive. Commercial grade sat antenna, Spun aluminum 1 piece or 4 petal or 8 petal for easy install. Fits on 5.5" OD pipe (option 6.6 pipe).

PuchSep: controller, 1-ActArm, feed, LNBS, pad.

3.7 meter D37PMD60-5.5 popular size

Gain: 42.3dB @ 4Ghz, 51.5dB @ 12Ghz, 1pc reflector

3.7 meter D37PMD60-4PC-5.5 \$3888 popular size, motorized 2-axis mount, easy-ship 4 petal reflector

4.2 meter D42PMD60-8PC-6.6 \$6344 highest gain pipe-mounted dish with motorized 2-axis mount, 8 petal reflector



BEST 2-axis MOTORIZED horizon-to-horizon

Heavy-duty motorized system with massive steel "D-drive," mounts on a single 5.5" OD pipe (option 6.6 pipe). 2-axis horizon-to-horizon mount for perfect peaking on entire wide arc of sats. Ideal for foreign language low sats on east & west.

3.7 meter D37MHPMD-5.5 popular size,

Gain: 42.3dB @ 4Ghz, 51.5dB @ 12Ghz

3.7 meter D37MHPMD-4PC popular size,

Easy-ship 4 petal reflector with 2-axis mount

4.2 meter D42MHPMD-5.5 highest gain pipe-mounted dish, Gain: 43.5dB @ 4Ghz, 53.0dB @ 12Ghz.

4.2 meter D42MHPMD-8PC highest gain pipe-mounted dish, 2-axis mount, easy-ship 8 petal reflector



CALL or EMAIL to request price

Call DAWNco

ULTIMATE dual-axis MOTORIZED with massive mount

Highest gain dish with strong 16 inch diameter mount, dual-axis az/el motorized, utilizing jumbo "crane-like" pivot point. Precise movement to any satellite, with perfect peaking. PuchSep: controller, feed, LNBS, pad.

4.5 meter D45MAE-MRC2-8PC \$13,399

dish & controller Gain: 43.9dB @ 4Ghz, 53.3dB @ 12Ghz. 8-petal reflector

5.0 meter D50MAE-MRC2 dish & controller

Gain: 44.3dB @ 4Ghz, 54.2dB @ 12Ghz. 1-pc reflector

5.0 meter D50MAE-MRC2-8PC dish & controller

with 2-axis Gibraltar mount, easy-ship 8 petal reflector



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Pictures & Spec's

Complete Sat Antenna Packages

Dish • Feed • LNBS • Controller

3.7m Aluminum 1-axis Motorized

1-piece aluminum dish, motorized polar mount, HD 36 inch actuator & motor, single axis position controller, 2 port C/ku motorized feedhorn, better C & Ku LNBS, RG11 signal cable, motor wire, and power supply for LNBS.

\$6K

SATPACK-D37P plus pad, install, freight

4.2m Aluminum 2-axis Motorized

1-piece aluminum dish, motorized polar mount, HD 36 inch actuator & motor, dual axis position controller, 2 port C/ku motorized feedhorn, better C & Ku LNBS, RG11 signal cable, motor wire, and power supply for LNBS.

\$10K

SATPACK-D42PMD plus pad, install, freight

5.0m Aluminum 2-axis Motorized

Heavy-duty aluminum dish, motorized AZ/EL "Gibraltar" mount, dual axis position controller, 4 port C/ku motorized feed, best C & Ku LNBS, RG11 signal cable, motor wire & splitter/power supply for LNBS.

\$18K

SATPACK-D50MAE plus pad, install, freight

Motorized Satellite DISH PACKAGES

Includes all items except: pad, freight, installation



Motorized Sat Antenna

Feedhorn & LNB

Position controller



Mounts for antennas

Securely hold dish on flat roof or other surface

Some sites offer a clear view of the desired satellite, but require a special mount that can hold the dish securely. DAWNco offers PENETRATING MOUNTS that can hold a dish by bolting into an existing cement pad or solid surface. We also offer NON-PENETRATING ROOF MOUNTS (NPRM) to hold the sat antenna on a flat roof area. There is no need to bolt into the roof, because the NPRM will hold the dish on top of a large steel tray structure. The customer fills the trays with cement block ballast, to a weight that has been approved by a local structural engineer.

The NPRM can also be considered a "temporary" structure for securely holding the dish on the ground, to make the dish operational without waiting for zoning approvals.

#1 BASESTAND-GUSSET-5.5 \$509

hold dish on cement pad or pier, 5.5" OD x 72" tall

#2 BASESTAND-GUSSET-6.6 CALL

hold dish on cement pad or pier, 6.6" OD x 72" tall

#3 PRM-PXL2P-550x3 CALL

4-leg steel structure to hold 3.7m dish on top of steel beams or other structure

#4 NPRM-D24D27-3.5 \$599

Non-Pen roof mount to hold 2.4 or 2.7 meter sat antenna, with 3 trays and 3.5" OD top pipe.

#5 NPRM-PL10 CALL

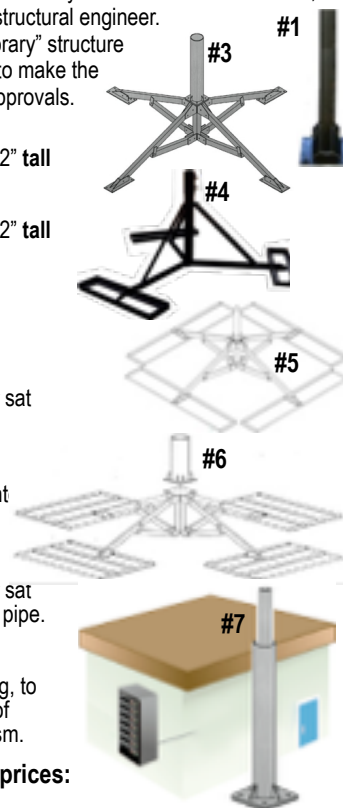
Non-Pen roof mount to hold 3.0 meter sat ant with 4 trays and 5.5" OD top pipe.

#6 NPRM-PXL2 CALL

Non-Pen roof mount to hold 3.7 or 3.8 meter sat dish, w-4 large trays and 5.5" or 6.6" OD top pipe.

#7 TALL-PIPE CALL

Place the tall pipe adjacent to 1-story building, to hold dish in elevated position for clear view of satellite. Also offers protection from vandalism.



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



Digital TV Channel Processing

Choose the ENCODER with the IN-OUT you need

PART #	PIC	DESCRIPTION	IN	OUT	PRICE
E2-1AV-1QAM	pic 1	Encoder for MPEG2 SD, with QAM modulator	1video & 2audio	1-QAM channel	\$677
E2-1HDMI-1QAM	pic 1	Encoder for MPEG2 HD, with QAM modulator	1 HDMI & 1 AV	1-QAM channel	\$1244
E2-6AV-1QAM&ASI	pic 4	Encoder for MPEG2 SD, with QAM modulator	6 video & stereo audio	1-QAM & ASI	\$1730
E24-1HDMI-1QAMip	pic 2	Encoder, MPEG2/4 HD & SD, with QAM modulator	1 HDMI (and ASI in for muxing)	1-QAM & ASI & IP	\$2488
E24-2HDMI-4QAM	pic 3	Encoder, MPEG2/4 HD & SD, with QAM modulator	2 HD component & 2 HDMI	4-QAM & ASI (Option: IP)	\$2555
E24-1HDSI-1QAMip	pic 2	Encoder, MPEG2/4 HD & SD, with QAM modulator	1 HDSI (& ASI in for muxing)	1-QAM & ASI & IP	\$2744
E24-4HDMI-4QAM	pic 3	Encoder, MPEG2/4 HD & SD, with QAM modulator	4 HD component & 4 HDMI	4-QAM & ASI (Option: IP)	\$3966
E24-2HDMI-1QAMip	pic 2	Encoder, MPEG2/4 HD & SD, with QAM modulator	2 HDMI (and ASI in for muxing)	1-QAM & ASI & IP	CALL
E24-2HDSI-1QAMip	pic 2	Encoder, MPEG2/4 HD & SD, with QAM modulator	2 HDSI (& ASI in for muxing)	1-QAM & ASI & IP	\$4444
E24-6HDMI-4QAM	pic 3	Encoder, MPEG2/4 HD & SD, with QAM modulator	6 HD component & 6 HDMI	4-QAM & ASI (Option: IP)	\$5099
E24-4HDMI-1QAMip	pic 2	Encoder, MPEG2/4 HD & SD, with QAM modulator	4 HDMI (and ASI in for muxing)	1-QAM & ASI & IP	CALL
E24-4HDSI-1QAMip	pic 2	Encoder, MPEG2/4 HD & SD, with QAM modulator	4 HDSI (& ASI in for muxing)	1-QAM & ASI & IP	CALL
E24-8HDMI-4QAMip	pic 3	Encoder, MPEG2/4 HD & SD, with QAM modulator	8 HD component & 8 HDMI	4-QAM & ASI & IP	CALL

Encoder / Modulator for A/V & HDMI input

1 Channel MPEG-2 encoding & full PSIP & EPG data generation, PID mapping for TV channel out. Modulates standard definition digital TV channel in either Cable (QAM) or Free to Air (8VSB). Adjustable RF level out.



SD QAM out #E2-1AV-1QAM \$677
HD QAM out #E2-1HDMI-1QAM \$1244

Encoder / Modulator MPEG2/4 for HD-SDI input

Convert HD input to Cable TV QAM channel out, plus Internal ASI Multiplexer for adding to transport stream output. Has IPTV streaming output in the form of a UDP multicast or unicast.



QAM & ASI & IP output
#E24-1HDSI-1QAMip \$2744

Encoder / Modulator MPEG2/4 for A/V & HDMI input

Multiplexes up to 8 HD programs into 1 to 4 QAM channels out, plus ASI out. Control via front panel or web. Option for IP output.



Two program input and 4 QAM & ASI output, #E24-2HDMI-4QAM \$2555
Ask about OPTIONS: HD-SDI input, up to 8 program input CALL

Encoder / Modulator MPEG2 for 6 A/V input

Encode up to 6 composite video & stereo audio inputs, into 1 QAM channel out. Agile 54-864 Mhz out, with up to 40 dB output level.



QAM & ASI output
#E2-6AV-1QAM&ASI \$1730

CABLE TV on fiber - rack mount TX, wall mount RX

Pass 100+ TV channels on 1 SM fiber

Put cable TV channels onto 1 singlemode fiber. 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.

CABLE TV forward path TRANSMITTER

Forward path, 6 dB OLB.
IN: 45-860 Mhz on F conn,
OUT: 1 singlemode fiber SCAPC #FBS-870F6T 6db OLB \$1599
Other Transmitter OLB values: 8, 10, 12, 13, 14, 16 CALL



CABLE TV reverse path RECEIVER
Reverse path back to headend, IN: 1SM fiber SCAPC, OUT: 5-200 Mhz on F conn, FBS-870R-Return1 (1 reverse path) 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

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/mixes Sub-Band & CATV/UHF/ VHF signals to 1 out.
DIPLEXER-SUB-CATV \$29



Tune 1 to 12 off air 8VSB channels Multi-Channel DIGITAL DEMODULATOR System (separate demod card-in-chassis for each channel) Convert each channel to AV or ASI

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. ASI output units need chassis & power supply, AV output units also need controller (Purchased Separately).

CALL or EMAIL to request price

DEMOM w-A/V out #PD10 CALL or EMAIL to request price
DEMOM w-ASI out #PD10-ASI purchase CHASSIS & PowSup separately



QAM Modulator, ASI into 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 CALL

IP Television input • Convert up to 48 programs 12 Channel QAM MODULATOR output Convert IPTV into popular Cable TV QAM format

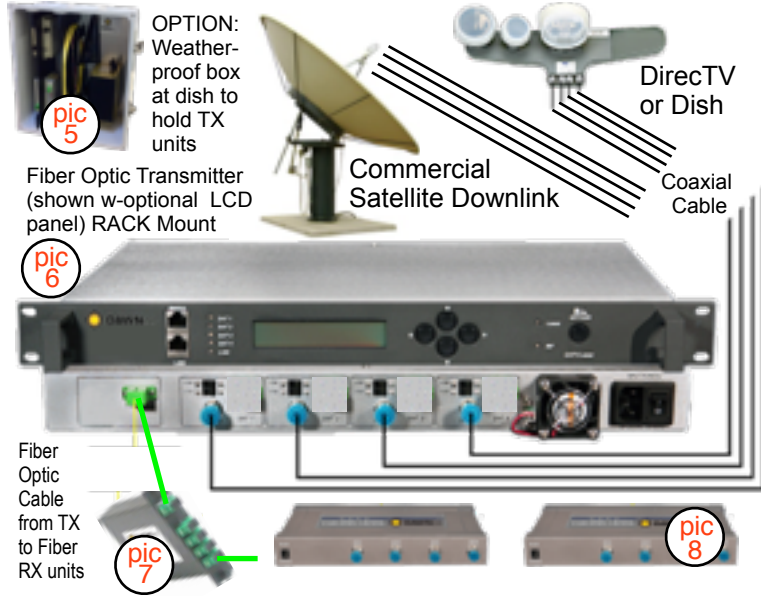
Input GigE in the clear or pre-encrypted IP sources, and converts the selected streams into 12 QAM RF channels. Agile channel selection in 50-1002MHz, organized as 3 independent groups of 4 channels. Local or remote control via browser. Optional EAS & redundant PS. Ideal uses for the QT12 include commercial residential properties, academic and medical facilities, local area network applications for both CATV and broadcast as well as the hospitality industries

CALL or EMAIL to request price





SATfiber • place your dish a long distance away



4 or 6 LNB-on-1Fiber rack-mounted SATELLITE Fiber Connection

\$1K per LNB (based on 1TX & 1RX to pass sat LNB polarizations over 1 SM fiber)

INTEGRATED 1-FIBER SYSTEM WITH BUILT-IN MUX and DEMUX. When fiber connection has limited fiber availability, such as when sending sat signals across town, Use satellite L band on 1fiber. TX-INPUT: 250-2400 Mhz on 4 or 6 F connectors, TX-OUTPUT: CWDM 4 or 6 optical bands stacked on 1 SM fiber using SCAPC connectors. Loss Budget: xx dB. TX with LNB powering (13v or 18v & tone or no-tone).

Qty	Description	Pic	Part Num	Price
4LNB-on-1Fiber, economy CWDM				
1	Transmitter for SATfiber, rack-mount	pic 6	FSS-4POLcwdm-TX-rack	CALL
1	Receiver for SATfiber, wall-mount	pic 8	FSS-4POLcwdm-RX-wall	CALL
6LNB-on-1Fiber, economy CWDM				
1	Transmitter for SATfiber, rack-mount	pic 6	FSS-6POLcwdm-TX-rack	CALL
1	Receiver for SATfiber, rack-mount	pic 8	FSS-6POLcwdm-RX-wall	CALL
	OPTION: Splitter to feed many RX	pic 7	SPM1x* (choose 2-4-8-16)	CALL
	OPTION: Enclosure by dish holds TX	pic 5	FWM (choose size)	CALL

OPTIONAL DWDM SATfiber: Ask about "Best Spec" version of SATfiber, which is best for designs that use optical splitters to feed many RX receive points from one TX, and for super long distance paths that require EDFA amps. Call DAWNco 248-391-9200.

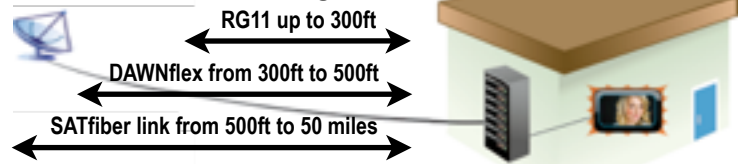
1LNB-on-1Fiber wall-mounted Outdoor rated SATfiber system

Used this "palm-sized" modular system for satellite signal cable runs that are over 500 feet long. The Transmitter (TX) can be placed near the dish, and has an operating temp range of -45 to +150 ° F. Pass 700 to 2800 Mhz satellite L band signals. Use external power supply to provide power to units. 1-fiber per LNB. Carry signals over long distances using SM fiber with SC/APC optical connectors.

SATfiber TX, place near dish, 1-TX per pole, FSS-95F13T-wall
SATfiber RX, place indoors near sat receiver, FSS-95F13R-wall
Power Supply for TX & RX, wall-wort style, FSS-95F13-PowSup
Optional external power supply for LNBs, wall-wort style, DCP7A
Optional rack shelf, unit to hold TX & RX units in rack, PMOR-S



Choose the BEST LNB signal cable



See loss comparisons for sat signals on coax cable for 100ft at 1450 Mhz:
 DAWNflex = 3.12 dB • RG11 = 5.39 dB • RG6 = 7.49 dB.

RG11 for dish SIGNAL CABLE up to 300ft

RG11 signal cable for most satellite downlink cable runs, pass L band signals in 50-2200 Mhz range, somewhat flexible with black PE jacket, 60% braid coverage, bonded foil, flooded to keep moisture out.

- Coaxial cable, #RG11F-SAT 69¢ per foot
- Compression connector w-center pin #GF11-COMPRESS \$7 each
- Tool Kit to properly install RG11 connectors, with tools for compression and stripping, #GF11-TOOL-KIT, CALL

"Super low-loss cable"

DAWNflex for dish SIGNAL CABLE from 300ft to 500ft

Improve signal quality on satellite downlink, by reducing loss on signal cable run from dish to building. Flexible coax passes signals to 3 Ghz including satellite L band, and is flooded for direct burial, quad shielded for best protection from signal ingress, flexible 2.5 inch bending radius, with .61 inch overall diameter. Cut signal path loss in half, compared to other common coax cable types. "F" type connectors with lightning protection ground lugs.

- Coaxial cable, #DAWNflex.6QF \$1.29 per foot
- Female F connector, #DF.6QF-Ffem \$32
- Male F connector, #DF.6QF-Fmal \$32
- Cable stripper, #DF.6QF-stripper CALL

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, water-proof pulling eye on 1 end, standard pull eye on other. **\$1199** see pg 5
 #SM6io-SCA12-WtDr-800

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

5C CONTROL CABLE for motorized dish

Five (5) conductor cable used to connect outdoor satellite dish to indoor controller, provides these separate cables under one black PVC jacket: 2 conductor/16gu, PLUS 3 conductor/18gu, with foil shield & drain, and overall black UV resistant PVC jacket. 500ft reel **\$1.09 per foot 5C1618S**

15C CONTROL CABLE for motorized dish

Fifteen (15) conductor cable for 2-motor satellite antenna, to link outdoor satellite antenna motors & sensors with indoor controller. Consisting of 15 conductors with 4 individually jacketed groups cabled together and jacketed overall. 500ft reel. Call for details.

15C14-22 CALL (limited avail)

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CABLE for Satellite signals
SATfiber • Low Loss Coaxial Cable



Feedhorn & Parts Receive signals at front of dish

"Ask us about DISCOUNTS for large quantity purchases of any item"

STATIONARY 4-port C/Ku
Feedhorn for horizontal & vertical all channel reception on a C/Ku band satellite.

4port GOOD \$409
FEED-4CK-ECON
4port BEST CALL
FEED-4CK-HQ



STATIONARY 2-port C band
dual-pole C band feedhorn for all channel reception on a C band satellite

2port GOOD \$119
FEED-2C
2port BEST CALL
FEED-2C-HQ



STATIONARY Ku offset feed
for stationary Ku band dish with offset feed struts. Verify attachment method for feed



1-port Ku CALL **2-port Ku CALL**
FEED-1KOF **FEED-2KOF**

MOTORIZED 4port C/Ku
Feedhorn for reception of all channels on any C/Ku band satellite.

Motor rotates entire feed, w-POT sensor.
FEED-4CK-MOTHQ-POT \$2199

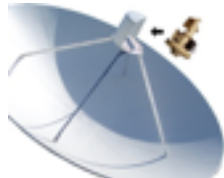


MOTORIZED 2port C/Ku
Feedhorn for 1 pole C band and 1 pole Ku band.

Motor adjusts for horizontal or vertical
FEED-2CK-MOT \$149



Put NEW feed on OLD dish
RETROFIT-KIT will replace the existing feedhorn and struts, to support a new C or Ku band feedhorn at the focal point of the dish
KIT4-8MBF-CLAMP \$1099



C band 90° elbow for C band feed. Flanges are smooth-to-groove.



90C-E CALL **90C-H CALL**
"E" easy bend "H" hard bend

Ku band 90° elbow for Ku band feed. Flanges are smooth-to-groove.



90KU-E CALL **90KU-H CALL**
"E" easy bend "H" hard bend

Replacement HQ feed motor

Replacement kit for high quality motorized feedhorns. Unit includes: Motor and gear, #HQmotor-Gear **CALL**



C Band LNA "old style"

mounts at feehorn, amplify 3.7-4.2 Ghz sat signal, output on N connector (no block down conversion),
CLNA35 CALL



Plastic Dome for HQ feedhorn

Cover opening on dish-facing end of HQ feedhorn, prevent moisture & insects from entering
Feed Cover \$49
#PLASDOM-NEWFEEDS



Blue Cap for ECON feedhorn

Replace old cap on "Chap" feedhorn, new cap keeps wasp nests from blocking signals
Blue Cap \$9
#CC0061-New



"DivinSup" AMPLIFIED SPLITTER 1 LNB can feed up to 9 Receivers • Zero thru loss

Two 1x5 amplified splitters
with 2 LNB powering, 1RU
DIVINSUP-2-1x5A \$219

One 1x9 amplified splitter
with 1 LNB powering, 1RU
DIVINSUP-2-1x5A CALL



- Reliable LNB power
- Organize wiring from LNB
- Amplified for zero thru-loss

Everything is tidy when signal wires running between the satellite dish and receivers will converge on your new rack-mounted DIVINsup unit. Boost the signal level coming from dish mounted LNBs, using the two onboard 1x5 amplified L band splitters which pass 950-1450 Mhz signals. One LNB can feed up to 9 Receivers, or two LNBs can each feed 5 receivers, with zero thru loss for optimum signal quality. Front panel status lights keep you aware of your LNB health. Each unit includes one 1000ma power supply, to power LNBs with 18vdc.



Passive Splitters for Satellite Feed

8-way \$36
DED778A



4-way \$25
DED774A



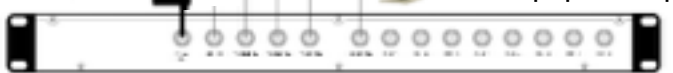
Power Supply for LNBs Inserter module provides power to two LNBs, with external 1000ma wall-mount power supply. Select-switch for 18vdc for two LNBs, or 18/13vdc for LNBF. Power 2 LNBs w/1amp PowSup
#DCP7A \$79



New!

Satellite Input SELECTOR Switch

Call for more info



Each of 16 Receivers uses its own control panel to select proper LNB input

4 LNBs shared by up to 16 Receivers

4x16 selector switch allows each of up to 16 satellite receivers to choose the proper A or B or C or D satellite LNB input. Compatible with sat receivers that have the capability to provide 13 or 18 vdc power to LNBs, and 22 Khz tone for for switch activation. LNB input selection takes place on each receivers control panel. Rack mount.

QTY 1	INPUT SELECTOR, 5x16 type	SELECT-516R	\$455
QTY 2	POWER INSERTER and 1000 ma power supply will power two LNBs	DCP7A-1000	\$79
OPTION	TONE GENERATOR, 22 Khz	MS-TONE-GEN	\$24

Used when sat receiver doesn't have tone capability

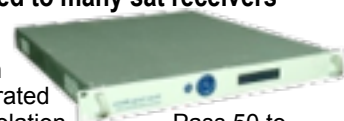
4 LNBs shared by up to 8 Receivers

4x8 selector switch allows each of up to 8 satellite receivers to choose the proper sat LNB input. LNB input selection takes place on each receivers control panel. Wall mount.

QTY 1	INPUT SELECTOR, 4x8 type	SELECT-48AMP	\$144
QTY 2	In from 4 LNB, Out to 8 Sat Receivers. Includes PowSup POWER INSERTER and 1000 ma power supply will power two LNBs	DCP7A-1000	\$79

Efficiently manage LNB signals routed to many sat receivers Satellite Feed Matrix Switcher

Matrix Switch for satellite feeds. Option for redundant LNB power supply, integrated into matrix. Modern design with high isolation. Pass 50 to 2150 MHz signals, 1RU rack mount. Control via Front panel and remotely with web browser. Select any input to any output, plus monitoring and adjustment of output signal level and LNB power draw.



Matrix 16in x 16out **CALL for best price** Matrix 16in x 16out w-Redundant LNB power, #SFS1616C-LNBpower \$13K
#SFS1616C \$11K

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

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248-391-9200

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Pictures & Spec's



Satellite Receivers Decode MPEG2 & MPEG4 Channels



HD & SD satellite receiver and Decoder for MPEG2-MPEG4-420 **NEW low-price** **\$1588** **#D5500-IRD**

This unit is loaded with all of the features you need for HiDef, and your company's budget bosses will appreciate the price. The D5500-IRD is a receiver and decoder for SATELLITE L band input, with an included IP input for terrestrial decoding. Receive HiDef, plus backward compatibility to standard-def. Demodulate and decode MPEG4-420 and MPEG2-420, with compatibility for DVBS or DVB-S2, and QPSK or 8PSK. Outputs are baseband A/V and ASI, plus SDI and HD-SDI. The unit has the ability to cross convert utilizing a built-in format converter, and analog output is available together simultaneously with SDI output. Your audio needs are covered with embedded 8 channel audio, and Dolby AC3. Unit can be controlled with web browser, and has full SNMP (10/100 ethernet) monitor/control support.



Loaded satellite receiver • 422 & FrameSynch Decoder for MPEG2-MPEG4-420-422 **#D5500-422**

Most versatile satellite receiver for broadcasters, with all the features needed for contribution applications. Input sat L band. Output A/V, SDI, HDSDI, ASI, and IP. Controllable from front panel and web browser.

Call for Cisco (S/A) or DigiCipher satellite receivers



Supports digital component video (SDI) with 2 channels of embedded audio, ASI input/output and Gig-E output

Broadcast grade w/o SDI D9854 \$1998 **Broadcast grade with SDI D9854-SDI CALL**

Tools for Satellite • Measure for Perfect Aim

Digital SmartLevel

Use to establish level, and set elevation on sat dish. Hands free mode with "beep" indication

SMARTLEVEL \$169



Compass & Inclinometer

Indicate compass heading & elevation in 5 degree steps, adjustable neck band for front-of-face visual sighting of object while reading meter displays.

SAT-MASTER \$244



FLEXtest-case Protective Case

Protect your meter investment w-hardshell case & foam lining.

CALL or EMAIL to request price



SurveyHorn Sweep horn in circle around satellite dish, when connected to spectrum analyzer. Use to identify the direction and source of TI interference.



Add plug-in module:

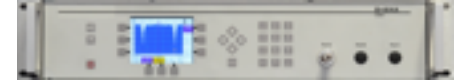
CALL or EMAIL to request price

Choose desired measurement capability module

- FLEXtest-SAT** Plug-in measures north american satellites, DBS and broadcast TVRO (50-2150 Mhz)
- FLEXtest-VSAT** Plug-in for measurement of international sats & VSAT (900 to 2150 Mhz)
- FLEXtest-AIR** Plug-in measures cable TV and off-air broadcast of TV & radio (5 to 1000 Mhz)

SATmon satellite signal status monitor with AUTO-SWITCH to backup source

Front panel continuously displays signal quality for both primary and secondary satellite downlink feeds. When primary satellite downlink fails (based on signal thresholds specified by user), the system automatically switches to the backup satellite feed. Redundancy for the satellite antenna, feedhorn, LNB, and cable path. Place backup antenna adjacent to the primary antenna, or at a secondary location linked via fiber. Instantaneous restoration of service.



Qty	Description	Part Num	Price
	Status monitor 2 SATELLITE feeds, auto-switch to backup upon failure	Complete System	\$2877
1	Base SATmon monitoring instrument in rack-mount chassis, with keypad & display & power supply	SATmon-chassis	\$1790
2	Satellite receiver module, L band input, North American satellite/DBS and broadcast TVRO (250 to 2150 Mhz)	SATmon-SAT	\$380
1	Switcher module, primary & secondary feed inputs, on failure switch to backup	SATmon-switch	\$327
Other available status monitoring components			
	Satellite receiver module, L band input, international satellite and VSAT (900 to 2150 Mhz)	SATmon-VSAT	CALL
	Off-air & Cable TV receiver module, 5 to 1000 Mhz	SATmon-AIR	CALL
	Optional built-in fixed CW pilot carrier for SATmon, stable crystal controlled (user specified freq).	SATmon-pilot	CALL

New! FLEXtest • all frequency portable measurement system

Customers report that they can boost sat receiver EbNo performance by several dB, when using the FLEXtest meter to perfectly peak their satellite dishes. Base unit with SAT module will display satellite names, and show precise signal quality feedback for every adjustment to antennas. Portable unit with neck strap to allow hands-free adjustment of the dish. Much more precise than a spectrum analyzer, plus it powers the LNB during work. USA tech support. Modular system provides a base unit with swappable frequency measurement modules. Ask about option to add measurement of Cable TV & Off Air.



\$717 base+SAT
#FLEXtest-baseXR3+SAT
Satellite module and portable main unit with power supply & keypad & display

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Pictures & Spec's

Testing & Monitoring Spectrum Analyzer • Signal Level

SPECIAL PRICES until Sept 30, '16 while QTYS last





Satellite Products

HD Grade LNBS • Best TI Filters

Prevent 'tiling' on digital channels

Best HD grade LNBS Watch for improved EbNo readings on your digital satellite receivers when using our "L series" of C and Ku band LNB amplifiers. Accommodate the "finicky" nature of new HD satellite receivers with improved LNBS that can make a real difference in the reception of high-definition and 8PSK satellite channels. Best-in-industry specs for "gain compression" and "phase noise." Reduced power draw never overtaxes sat receivers. DAWNco's LNBS feature best-in-industry stability ratings to prevent video picture tiling and signal outages when outdoor temperatures fluctuate.



C Band LNB satellite 3.7 to 4.2 Ghz signals in, to 950-1450 Mhz out

CLNB20-PL10L \$199

Next-to-Best / 20° degree noise
1 dB Gain Compress = +10 dBm
stability ±10 KHz

CLNB20-PL02L \$299

BEST / 20° degree noise
1 dB Gain Compress = +10 dBm
stability ±2 KHz

Best Price
Best Specs

Ku Band LNB satellite 11.7 to 12.2 Ghz signals in, to 950-1450 Mhz out

CALL or EMAIL to request price

KLNB.7-PL15L \$299
GOOD / .7 dB noise figure
stability ±15 KHz

KLNB.6-PL05 \$299
BEST / .6 dB noise figure
stability ±5 KHz

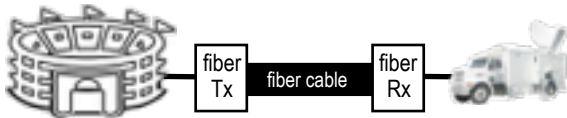


Special frequency Ku band Choose LNB with 1 F connector out (for prime focus dish), or choose LNBF with 2 F outputs and 13/18 volt switching (for offset dish).

Input Freq	Ku LNB Part No (prime focus)	CALL or EMAIL to request price	Ku LNBF Part No (offset dish)	CALL or EMAIL to request price
10.9 to 11.7	KLNB.7-PL10-10.9	CALL or EMAIL to request price	KLNBFD1.0-10.9	CALL or EMAIL to request price
11.7 to 12.2	KLNB.6-PL05		KLNBFD1.0-11.7	
12.2 to 12.7	KLNB.7-PL10-12.2		KLNBFD1.0-12.2	



Mini



Digital Video on 1-fiber Big things come in small packages. This little module will pass most popular types of digital video, including embedded audio, over long distances on fiber. Distances to 30 Km are no problem. Pass all types of DIGITAL VIDEO, including: (3G for 1080p), ASI, SDI, & HDSDI. Multipurpose unit will work for multimode (MM1) or singlemode (SM1) fiber, with ST connector. Versatile inline modules can be placed anywhere.



Ask about Rack Mount Option

\$1K
per TX/RX link

1 SDI (or ASI) on 1fiber
TX= FDS1-D1TH-mini
RX= FDS1-D1RH-mini

4 SDI on 1fiber
TX=FDS1-4SDIT
RX=FDS1-4SDIR

CALL or EMAIL to request price

8 SDI on 1fiber
TX=FDS1-8SDIT
RX=FDS1-8SDIR

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page 8

Pictures & Specs's

TI interference elimination FILTER

Prevent signal outages • Block radar from airports & military

In ten minutes you can stop the satellite interference by unbolting your CLNB, inserting your new TI filter, and reinstall the CLNB on top of the filter. DAWNco's best-in-industry TI filters are used to block local radar before it enters your dish-mounted LNB. Rhythmic drop-outs and degraded satellite reception often occurs near airports, harbors, or military bases. Our top-grade TI filter can also block close-in interference coming from the newly FCC authorized 3.65 Ghz Wimax transmitters. Our filter passes the desired 3.7 to 4.2 Ghz satellite channels with super-low .4 dB insertion loss. Our filter blocks the out-of-band interference (by up to 70 dB) before the interfering signals can enter the C band LNB and cause the jitter that degrades satellite reception.

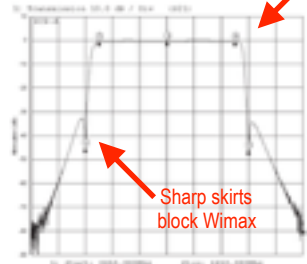
C-BANDPASS-WIMAX-4 \$288

Pass 3.7-4.2 Ghz USA C band

C-BANDPASS-WIMAX-3.6 CALL or EMAIL to request price

Pass 3.6-4.2 Ghz Non-USA C band

Only .4 dB insertion loss



Best Price
Best Specs

Sharp skirts block Wimax

Surge Suppressor for LIGHTNING

near sat antenna Place "LNB-Zap-Stop" in the coaxial cable line that runs from the dish, to the satellite receivers. Think of it as an "insurance policy" to protect expensive indoor equipment from lightning hits. Transient Suppressing Diode technology works to block high voltage lightning surges. The lightning protection units can take multiple hits, with no need for resetting or replacing.



\$119
CALL for QTY discount

#LNB-Zap-Stop

Protect CONTROL WIRING from motorized dish to indoor controller: Controller-ZapStop: CALL

COVERsat • Gravity & steep slope keeps snow off dish

Satellite antenna cover, made to exactly fit the customers specified dish type, custom fit to antenna dimensions specified by customer. Reduce signal outages due to "winter" weather. When wrapped over the front face of a dish, the cover creates a steep slippery surface to prevent accumulation of ice & snow. Attenuation is less than .3 dB



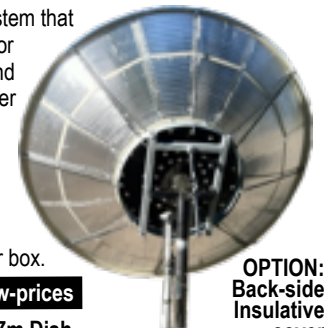
\$179 COVERsat-1.2
for small dish 1.2m size

\$519 COVERsat-3.7
for 3.7 meter dish

CALL COVERsat-4.5
for 4.5 meter dish

HEATsat stops snow outages. Kit includes: custom sized sheets of heater matting, sensors for temp & precipitation, install instructions

Prevent signal outages with Electric HEATING system that arrives as a kit for customer installation on a new or existing satellite antenna. Specify the dish size and make. Choose standard half coverage to heat lower part of dish, or full coverage for most effective protection under all weather conditions. Kit includes custom sized sheets of heater matting, which customer applies to dish backside. Sensors for precipitation and temp are included. Local electrician connects power to the included breaker box.



OPTION: Back-side Insulative cover

\$2400 Heat 3.0m Dish, lower 1/2, #HEAT-30half

CALL Heat 3.7m Dish, lower 1/2, #HEAT-37half

CALL Heat 3.7m Dish, full back, #HEAT-37full

CALL Heat 4.5m Dish, full back, #HEAT-45full

Example: see full coverage where entire backside has heat panels

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

SPECIAL PRICES until Sept 30, '16 while QTYs last

