



The performance-value leader in Broadcast Equipment.

### TERMS AND CONDITIONS OF SALE

### **ACCEPTANCE OF ORDERS**

All orders are subject to acceptance in writing by Seller. All orders must be confirmed by purchase order signed by Buyer. Signed orders via Fax will be accepted if they meet our terms and conditions of sale.

### PRICES

All prices shown are F.O.B. Seller's plant and are subject to change without notice. Prices do not include export packing, insurance, duties, Federal, State or local sales or excise taxes.

### **TERMS OF PAYMENT**

All orders are subject to the approval of Seller's Credit Department. Payment is due net 30 days from date of invoice. Buyer is responsible for all reasonable attorney and/or collection agency fees should such action become necessary by reason of Buyer's default.

### **SHIPPING TERMS**

Shipments F.O.B. Seller's plant will be sent transportation charges collect unless prior arrangements are agreed upon in writing. In the absence of specific instructions, Seller will ship by method deemed appropriate by Seller.

### TITLE TO GOODS AND RISK OF LOSS

Title to goods shall pass to the Buyer upon delivery to carrier and risk of loss or damage shall thereafter rest with the Buyer. Claims for damage or loss while material is in transit must be made against the carrier by the Buyer. ALL CLAIMS FOR SHORTAGES MUST BE MADE WITHIN THIRTY DAYS AFTER DATE OF SHIPMENT OF MATERIAL. CLAIMS FOR DAMAGE OR LOSS IN TRANSIT MUST BE MADE IMMEDIATELY AGAINST THE CARRIER BY THE BUYER.

### DELAYS.

All scheduled delivery dates are subject to delays caused by contingencies beyond Seller's reasonable control. Seller is not liable for failure to perform due to any such contingency.

### **SPECIFICATION CHANGES**

All designs and specifications of Seller's products are subject to change without notice.

### CANCELLATION

Cancellation of, or changes to acknowledged order by the Buyer are accepted only upon terms that protect the Seller against loss.

### LIMITED WARRANTY

THE SELLER WARRANTS THAT, AT THE TIME OF SHIPMENT, THE PRODUCTS MANUFACTURED BY THE SELLER ARE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP. THE SELLER'S OBLIGATION UNDER THIS WARRANTY IS LIMITED TO REPLACEMENT OR REPAIR OF SUCH PRODUCTS WITHIN ONE YEAR FROM THE DATE OF SHIPMENT (TWO YEARS FOR STL'S).

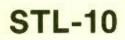
THE SELLER IS IN NO EVENT LIABLE FOR CONSEQUENTIAL DAMAGES, INSTALLATION COST OR OTHER COSTS OF ANY NATURE AS A RESULT OF THE USE OF THE PRODUCTS MANUFACTURED OR SUPPLIED BY THE SELLER, WHETHER USED IN ACCORDANCE WITH INSTRUCTIONS OR NOT.

THIS WARRANTY IS IN LIEU OF ALL OTHERS, EITHER EXPRESSED OR IMPLIED. NO REPRESENTATIVE IS AUTHORIZED TO ASSUME FOR THE SELLER ANY OTHER LIABILITY IN CONNECTION WITH SELLER'S PRODUCTS.

### **RETURNED MATERIAL**

Material cannot be returned for credit without written authorization. Such material is subject to a handling charge of not less than 15% upon return and inspection of material at factory. Credit for returned material is issued by the Seller only to the original purchaser. Freight charges for returned material are the responsibility of the Buyer.

Marti Electronics, Inc., P.O. Box 661, Cleburne, Texas 76033-0661 (817) 645-9163 Telex #794835 "Marti CLBN" Fax (817) 641-3869



# AURAL BROADCAST STUDIO-TRANSMITTER LINKS INTERCITY RELAY

# MARTI



STL-10 TRANSMITTER



**R-10 RECEIVER** 

# SCPC STEREO SYSTEM FEATURES

- ★ Unexcelled stereo separation, noise and distortion specs.
- ★ High interference rejection receivers.
- ★ Backup reliability of scpc stereo.
- ★ Full 10 watts output power.
- ★ Ga As FET low noise amplifier.
- ★ Available for new narrow channels.
- ★ Matched phase and amplitude.
- ★ Provision for automatic switching.
- ★ Two year limited warranty.
- ★ 12 V. Battery operation.
- ★ Selectable 0, 25, 50 or 75 us. emphasis.
- ★ FCC Approved under parts 74 & 94 FCC ID: BEN9EZSTL-10/950
- Up to 4 subcarriers per stereo system.
- ★ Accurate watt meters for forward and reflected power.

# Is Your FM Station A Relic of the Loudness Wars?

Now that you sound just like your mundane competition (loud, distorted, with little stereo separation and dynamic range), you are approaching the new battleground - **CD Quality.** 

But the battle of the 1990's can't be won with a "Loudness Box" ahead of a noisy "Composite" STL.

To get serious about CD quality you need an STL with a noise floor near -80 dB and stereo separation down to the noise floor.

# You need the **MARTI STL-10 scpc** System.

It's the weapon of choice to attract listeners searching for an FM station that sounds more like their own CD player!

### STEREO STL SYSTEM \$6,925

Package 51 Includes: 2 STL-10/950 transmitters 2 R-10/950 receivers 1 HRC-10 transmitter combiner 1 MTS-10 receiver combiner See System 1, Page 2

MONO STL SYSTEM

See Systems 4, 5, 6, 7, Page 2

Package 50 Includes:

1 STL-10/950 transmitter 1 R-10/950 receiver \$3,250

Prices Do Not Include Antennas and Transmission Line.

STEREO SYSTEM SPECS. MARTI STEREO STL (scpc SYSTEM 800-960 MHz.) 800-960 MHz. 500 KHz channel LEFT STEREO INPUT R-10/950 0.5 Degrees STL-10/950 TRANSMITTER L-R Differential Phase 20-15000 Hz FROM -LEFT RECEIVER STEREO OUTPUT L-R Differential Amplitude 20-15000 Hz 0.1 DB RECEIVE Stereo Channel Crosstalk/Separation -78 DB ANTENNA Noise (Left or Right Channel) -78 DB Frequency Response 20-15000 Hz ±0.25 DB TTER COMB Distortion (THD) 0.25% Type Emission 180 KF8E EACH TRANSMIT Channel Spacing 250 KHz (±125 KHz offset) RIGHT ANTENNA STEREO INPUT FROM See System 1, Page 2 STL-10/950 R-10/950 RIGHT TRANSMITTER RECEIVER FM LIMITER STEREO OUTPUI Stereo systems available for new 200 KHz and 300 KHz bandwidths See Systems 2 and 3, Page 2

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

MARTI The performance-value leader in Broadcast Equipment.

STL-10/R-10 RADIO LINK APPLICATION AND SYSTEM SPECIFICATIO	SNO
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SYSTEI	APPLICATION	FREQ RANGE MHz	CHAN BW KHz	STEREO OFFSET FROM C.F. ±KHz	FCC EMISSION DESIGNATOR	FCC	OPTIONAL SUBCARRIERS (NUMBER) KHz	TX PWR. WATT	FM DEV. HKHz	SIGI QL 50 DB	SIGNAL (UV) FOR QUIETING DB 60 DB U	ULT ULT	MAIN CHANNEL RESPONSE	<b>Т.н.</b> D. < %	ULT. NOISE -DB	ИИАНО О АЯАЧЭС Ф	PACKAGI
-	FM Stereo STL	945-952	500	125	180KF8E (2) each	74	(2) 39,67,92	10	50	3.0	10	80	±0.25 DB 20Hz-15KHz	0.25	-78	-78	51
CI	FM Stereo STL	945-952	300	62.5	80KF8E (2) each	74	(1) 39	10	20	8.0	25	130	±0.25 DB 20Hz-15KHz	0.3	-72	72	51
с С	AM Stereo STL	945-952	200	50.0	80KF8E (2) each	74	(1) 26	10	15	8.0	25	130	±0.3 DB 20Hz-15KHz	0.3	-72	-72	51
4	Audio/Data 1-4 Channels*	928-960	200	;	180KF8E each	74 94	(2) 39, 67, 92	0	50	3.0	10	80	±0.25 DB 20Hz-15KHz	0.25	-78	-78	50
5	Audio/Data 1-4 Channels*	928-960	100	1	80KOF8E each	74 94	(1) 39	10	15	0.0	25	130	±0.25 DB 20Hz-15KHz	0.3	-72	-72	50
9	Audio/Data 1-4 Channels*	928-960	50	1	36KOF3E each	74 94	1	10	~	16	06	130	±2 DB 20Hz-10KHz	2.0	-65	1	50
~	Audio/Data 1-4 Channels*	928-960	25	1	16KOF3E each	74 94	1	10	4	27	130	130	±2 DB 20Hz-7.5KHz	2.0	-60	1	50
8	2-4 MUX Channels Audio/Data	928-960	200	1	180KF8E	94	(3) 39,67,92	10	12	12	35	130	±1.5 DB 20Hz-7.5KHz	0.3	-62	60	95-4
<u>б</u>	Audio/Data 1-4 Channels**	200-480	100 200	each each	export export		(1) 39 (2) 39,67	15 15	15 15	8.0 10	25 30	120 130	±0.3 DB 20Hz-15KHz	0.3	-72 -72	-72 -72	53- 55
č u	For 9 channels use TV combined TATE	ν Τ Λ Π_000-0		CTI	CTI 10 TDANCMIN										•		

\*For 2 channels use TX combiner TAD-900-2 (page 9) For 3 or 4 channels use TX combiner TAD-900-4 (page 9)

Teor 2 or more channels on export frequencies use separate TX Yagi Antennas spaced 60DB.
 See bottom page 3.

NOTE: Orders for STL-10/R-10 systems must include operating frequencies and bandwidth. Export orders must also include line voltage and frequency.

# STL-10 TRANSMITTER SPECIFICATIONS

Frequency Range RF Power Output Carrier Frequency Stability	800-960, 400-480, 280-340, 200-260 MHz. 15 Watts 200-480, 10 Watts 800-960 MHz. ± .00025%
Type of Modulation	Direct FM Balanced 600 ohms +8 dbm Barrier strin BNC
Subcarrier Inputs	connector for unbalanced input. Two BNC connectors for Remote Control and
Power Requirements	Subcarrier Inputs, 50 to 600 ohms unbalanced. 120/220* VAC, 50/60 Hz. 80 Watts, 13.5 V.DC 2.6 Amps 24-28V.DC 2 6 Amps**
AC Power Supply Spurious Emission Automatic	Precision, electronically regulated with current limiting. More than 60 db. below carrier.
Changeover	Provision for Automatic Changeover 15 pin connector on rear panel provides filtered
Metering	ourputs for Hemote Control, Automatic Changeover, Remote Power Metering and External DC Power. Calibrated RF wattmeter reads forward and reflected power. Test meter reads main channel peak modu-
Dimensions Weight	lation, subcarrier level, supply voltage, P.A. current, RF Drive 1 and RF Drive 2. 3% High x 19" Wide x 14" Deep. Net 11 lbs. Domestic packed 18 lbs. UG-58

# **R-10 RECEIVER SPECIFICATIONS**

FCC approved under parts 74 and 94 FCC ID: BEN9EZSTL-10/950

# STL-10

# DOMESTIC AND EXPORT RADIO LINK SYSTEM PACKAGES

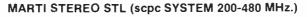


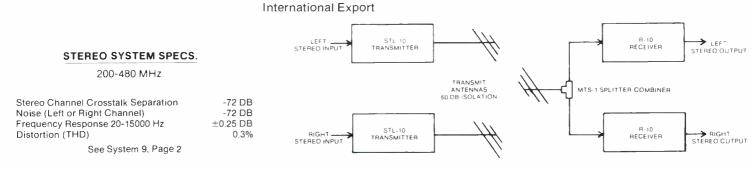
Frequency Band	STL Transmitters and Receivers - No Antennas	STL Monaural Systems with Antennas	STL Stereo Systems with Antennas
800-960 MHz.	PACKAGE 50 Mono\$3,250.001 STL-10/950 transmitter1 R-10/950 receiver for STLSee Systems 4, 5, 6, 7, Page 2PACKAGE 51 Stereo\$6,925.002 STL-10/950 transmitters2 R-10/950 receivers for STL1 HRC-10 transmitter combiner1 MTS-1 receiver combinerSee Systems 1, 2 and 3, Page 2	PACKAGE 50M \$3,327.00 1 STL-10/950 Transmitter 1 R-10/950 Receiver 2 PG-1.7B Jumper Cables 2 K-1 Weatherproofing Kits *TWO "N" FEMALE AND TWO "N" MALE CONNECTORS AND ½" TRANSMISSION LINE AND TWO DISH ANTENNAS REQUIRED	PACKAGE 51S\$7,002.002 STL-10/950 Transmitters2 R-10/950 Receivers1 HRC-10 Transmitter Combiner1 MTS-1 Receiver Combiner2 PG-1.7B Jumper Cables2 K-1 Weatherproofing Kits"TWO "N" FEMALE AND TWO "N"MALE CONNECTORS AND ½"TRANSMISSION LINE AND TWODISH ANTENNAS REQUIRED
200-260 MHz. Export Only	PACKAGE 53 \$3,250.00 1 STL-10/215 transmitter 1 R-10/215 receiver for STL See System 9, Page 2	PACKAGE 53M\$3,654.001 STL-10/215 Transmitter1 R-10/215 Receiver2 YC-215 Yagi Antennas2 PG-2B Jumper Cables2 K-1 Grounding Kits*TWO "N" FEMALE AND TWO "N"MALE CONNECTORS AND '2"TRANSMISSION LINE REQUIRED	PACKAGE 53S\$7,171.002 STL-10/215 Transmitters2 R-10/215 Receivers3 YC-215 Yagi Antennas3 PG-2B Jumper Cables1 MTS-1 Receiver Combiner3 K-1 Grounding Kits*THREE "N" FEMALE AND THREE"N" MALE CONNECTORS AND ½"TRANSMISSION LINE REQUIRED
280-340 MHz. Export Only	PACKAGE 54 \$3,250.00 1 STL-10/300 transmitter 1 R-10/300 receiver for STL See System 9, Page 2	PACKAGE 54M\$3,654.001 STL-10/300 Transmitter1 R-10/300 Receiver2 YC-300 Yagi Antennas2 PG-2B Jumper Cables2 K-1 Grounding Kits'TWO "N" FEMALE AND TWO "N"MALE CONNECTORS AND ½"TRANSMISSION LINE REQUIRED	PACKAGE 54S\$7,171.002 STL-10/300 Transmitters2 R-10/300 Receivers3 YC-300 Yagi Antennas3 PG-2B Jumper Cables1 MTS-1 Receiver Combiner3 K-1 Grounding Kits*THREE "N" FEMALE AND THREE"N" MALE CONNECTORS AND ½"TRANSMISSION LINE REQUIRED
400-480 MHz. Export Only	PACKAGE 55 \$3,250.00 1 STL-10/450 transmitter 1 R-10/450 receiver for STL See System 9, Page 2	PACKAGE 55M\$3,654.001 STL-10/450 Transmitter1 R-10/450 Receiver2 YC-450 Yagi Antennas2 PG-2B Jumper Cables2 K-1 Grounding Kits'TWO 'N'' FEMALE AND TWO 'N''MALE CONNECTORS AND ½"TRANSMISSION LINE REQUIRED	PACKAGE 55S\$7,171.002 STL-10/450 Transmitters2 R-10/450 Receivers3 YC-450 Yagi Antennas3 PG-2B Jumper Cables1 MTS-1 Receiver Combiner3 K-1 Grounding Kits*THREE "N" FEMALE AND THREE"N" MALE CONNECTORS AND ½"TRANSMISSION LINE REQUIRED

Prices of antennas, transmission line and connectors are not included in the above package prices. For current prices of these items, contact Marti sales.

Specifications for above systems are on page 2.

Orders for radio links must include operating frequencies and bandwidth. Export orders must also include line voltage and frequency.





SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

# **MARTI** The performance-value leader in Broadcast Equipment.

# MODEL SCG-10 SUBCARRIER GENERATOR MODEL SCD-10 SUBCARRIER DEMODULATOR

\$695.00



\$695.00

### **MODEL SCG-10 SUBCARRIER GENERATOR**

The Marti Model SCG-10 Subcarrier Generator is designed to operate in SCA service with an FM broadcast transmitter or, with a Model SCD-10 Subcarrier Demodulator, to form a subcarrier link on a microwave (STL) system. The SCG-10 has several options available which allow it to perform a wide range of functions in broadcasting and communications. Audio processing options include selectable pre-emphasis of zero. 75, 150 or 225 microseconds Low pass audio filters of 3 KHz. 5 KHz or 7.5 KHz are available. For subcarrier link systems using the SCD-10 demodulator, a compander encode board plugs into the generator and a decode board into the demodulator to adapt the system to audio companding.

The SCG-10 employs an illuminated panel meter to aid in adjusting modulation and subcarrier output level.

### **MODEL SCG-10 SUBCARRIER GENERATOR** SPECIFICATIONS

Subcarrier Frequency	Specify 26 KHz, 39 KHz, 41 KHz, 67 KHz, 92 KHz, Frequency test jack on front panel.
Frequency Stability	+0.18% -10°C to +50°C
Subcarrier Purity	
Modulation	
Modulator Distortion	Factory set for ±7.5% of subcarrier frequency. Less than 1% THD
Audio Processing	Pre-Emphasis: Zero, 75 us, 150 us or 225 us, user selectable. Low Pass Filters: Audio cut-off frequencies of 3 KHz, 5 KHz, or 7,5 KHz are specified with original equipment order. The lowest possible cut-off frequency is recommended. Maximum cut-off is 12% of subcarrier frequency. Companding: An optional compander encode board is available for installation in the SCG-10 when used in a subcarrier link having a SCD-10 subcarrier demodulator with a compander decode board. Companding will reduce noise and can mask certain types of main to sub crosstalk
Frequency Response	$\pm$ 1.5 DB 25 Hz to 95% of low pass filter cut-off frequency.
	More than 65 DB below 5 KHz deviation (measured through SCD- 10 demodulator directly connected to SCG-10 output, 225 us., without companding). With companding -72 DB.
Audio Input Impedance	600 ohms balanced (screw terminals or "D" connector pins)
Audio Input Level	Front panel adjustment -10 DBM to +8 DBM for 100% modulation.
Muting Level	Adjustable from 0 DB to 40 DB below 100% modulation (soft mute)
Muted Carrier Level	60 DB below rated Max. output level.
Subcarrier Output	Front panel adjustment 0.3 V. to 7 V. P-P into 600 ohm load. BNC connector.
Remote Control	Subcarrier can be remotely controlled by grounding a pin of accessory "D" connector.
Metering	Illuminated panel meter indicates peak modulation or subcarrier output level.
Controls	Meter switch, subcarrier control switch, modulation level, auto- matic mute delay, mute level, subcarrier output level, subcarrier frequency. Subcarrier frequency test jack also located on front panel.
Connectors	BNC Jack for subcarrier output. 9 pin "D" connector for balanced audio input, remote control, FSK/subaudible input, ground, +18-20V input, +13.5V input, AC receptacle, No. 6-32 screw terminals for balanced 600 ohm audio input
RF Protection	All input/output circuits filtered for RF. Totally shielded and bonded aluminum enclosure
Operating Temp Range	-10°C to +50°C.
Power Requirements	120/220* VAC 50/60 Hz 10 watts, or 12-14 V. DC at 50 MA., or 24-28 V DC at 70 MA.**
Dimensions	19" wide x 12" deep x 1¾" high
Weight	4.5 lbs. net, domestic packed 9 lbs

SPECIFICATIONS AND PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE

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MODEL SCG-10 SUBCARRIER DEMODULATOR

The Model SCD-10 Subcarrier Demodulator is designed for use with Model SCG-10 Subcarrier Generator to provide a high quality subcarrier channel on a microwave link (STL) or FM station. The SCD-10 may be specified for operation on a standard subcarrier frequency used in FM broadcasting. The subcarrier input to this demodulator should be from a high quality FM receiver having adequate IF bandwidth with group delay characteristics sufficient for subcarrier work. The Marti R-10 Receiver with 200 KHz phase linear IF filter is excellent in this respect.

The SCD-10 has several options available, allowing it to perform a wide range of functions in broadcasting and communications. Audio processing options include selectable de-emphasis of zero, 75, 150 or 225 microseconds. Low pass audio filters of 3 KHz, 5 KHz or 7.5 KHz are available. For subcarrier link systems using the SCG-10 generator, a compander decode board plugs into the demodulator and an encode board into the generator to adapt the system to audio companding.

The SCD-10 employs an illuminated panel meter to aid in adjusting subcarrier input level and audio output

### **MODEL SCD-10 SUBCARRIER DEMODULATOR** SPECIFICATIONS

Subcarrier Frequency	Specify 26 KHz, 39 KHz, 41 KHz, 67 KHz, or 92 KHz.
Subcarrier Input	0.1 to 1 V RMS, 10K ohms impedance, BNC connector, (Panel adjustment)
Demodulator Distortion	Phase locked FM detector has less than 0.6% THD.
Audio Processing	<b>De-Emphasis:</b> Zero, 75 us, 150 us, or 225 us, user selectable. <b>Low Pass Filters:</b> Audio cut-off frequencies of 3 KHz, 5 KHz, or 7 5 KHz are specified with original equipment order. The lowest possible cut-off frequency is recommended. Maximum cut-off is 12% of subcarrier frequency. <b>Companding:</b> An optional compander decode board is available for installation in the SCD-10 when used in a subcarrier link having a SCG-10 subcarrier generator with a compander encode board. Companding will reduce noise and can mask certain types of main to sub crosstalk
Frequency Response	$\pm$ 1.5 DB 25 Hz to 95% of low pass filter cut-off frequency.
Signal/Noise Ratio	More than 65 DB below 5 KHz deviation (using SCG-10 as signal source directly connected to SCD-10 input, 225 us.
Audio Output Level	+10 DBM maximum output level balanced and isolated into 600 ohms. Front panel adjustment range -60 DBM to +10 DBM
Subcarrier Squelch	Front panel adjustable squelch relay will squelch audio output over subcarrier level range of 0.1 to 2 0 volt input Normally open relay contacts available at accessory "D" connector for external functions. LED on front panel indicates "squelch open" condition
Metering	Illuminated panel meter indicates subcarrier input level or audio output level
Controls	Meter switch, squelch adjust/squelch open (LED panel indicator), subcarrier input level adjust, audio output level adjust.
Connectors	BNC jack for subcarrier input, 9 pin "D" connector for balanced audio output, squelch relay contacts. FSK output, ground, +18-20 V, input, +13.5 V input AC receptacle. No. 6-32 screw terminals for balanced 600 ohm output.
RF Protection	All input/output circuits filtered for RF Totally shielded and bonded aluminum enclosure.
Operating Temp Range	-10° C to +50° C.
Power Requirements	120/220* V. AC 50/60 Hz 10 watts, or 12-14 V DC at 50 MA , or 24-28 V DC at 70 MA **
	19" wide by 12" deep x 1¼" high
Weight	4.5 lbs. net, domestic packed 9 lbs.

COMPANDING OPTION 800-263: One Plug-in board each for SCG-10 and SCD-10

10% Injection 225 us. Pre-Emphasis		ack to Ba z Bandw			TL-10 <b>L</b> i z Bandw	
(NO COMPANDING)	3	5	7.5	3	5	7.5
NOISE DB	66	65	64	64	60	57
DISTORTION %	1.2	1.2	1.35	1.4	1.5	1.6
CROSSTALK MAIN-SUB DB				55	52	49

### SYSTEM SPECIFICATIONS

10% Injection         Back to Back         STL-10 I           0 us. Pre-Emphasis         KHz Bandwidth         KHz Band           WITH COMPANDING         3         5         7.5         3         5						
NOISE DB	73	73	73	70	70	70
DISTORTION %	1.2	1.2	1.35	1.4	1.5	1.6
CROSSTALK MAIN-SUB DB				58	55	52

# MARTI The performance-value leader in Broadcast Equipment.

# STL ACCESSORIES



### ATS-15D **TRANSMITTER SWITCHER**



\$750

### ATS-15D TRANSMITTER SWITCHER SPECIFICATIONS

ASO-200D RECEIVER SWITCHER SPECIFICATIONS

Switching Activation ..... Operation ... Standby Power **Power Requirements** Dimensions Weight ...

Application

N female connectors DC samples of relative power output are provided from each transmitter to the switcher through adjustable pots to a voltage comparator Switching can be set to occur at any RF power level. Unit can be operated from front panel and terminals are provided on the back for remote operation The ATS-15D can be operated with the Marti UPS-12 uninterruptible power supply, so when AC power is lost DC power is supplied through the ATS-15D to both transmitters The ATS-15D operates off 12 V DC furnished by both transmitters. 1¼" High x 19" Wide x 13" Deep. 3 Pounds 9 Oz

Provides switching between two Marti transmitters at power levels up to 50, watts, 5db loss or less with type

### **ASO-200D RECEIVER SWITCHER**



\$650

Application	Provides Audio and SCA switching between two receivers on the same frequency. The ASO-200D switches all functions to the backup receiver upon loss of signal to the main receiver. The
Remote Operation	switching threshold is determined by the setting of the squelch relay in each receiver. The standby receiver may be selected by using a latching relay tied to the station's remote control. A positive voltage output indicates which receiver is in use and the remote signal level sample is also available to be metered by the station's remote control.
Local Operation	Two leds are provided on the front panel to indicate which receiver is in use. The standby receiver can be selected by pushing the test switch
Fail-safe Power Requirements Dimensions Weight	1¾" High x 19" Wide x 13" Deep

### **MW-500 SPECIFICATIONS**

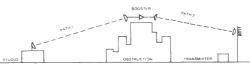
	30.
Frequency Range	944-952 MHz
Gain (Power)	
Output (Power)	+27 DBM (500 MW ) maximum operating power +30 DBM (1 watt) maximum output
Selectivity	MW-500 has three section input and output bandpass filters 3 DB band- width ± 3 MHz NOTE: One or more external bandpass cavity resonators may be required for additional selectivity
Emission and	
Bandwidth	Meets requirements of Part 74 535 (g)
Stability	Input-output antenna and coaxial line attenuation must exceed amplifier gain for stability
Metering	Accurate RF output power meter is provided on front panel (0-2 watts) AC
	supply and battery voltage can be measured at accessory connector on rear of unit
Connectors	Input and output RF connectors are UG-58 (Type N Female ) Accessory connector is subminiature D 15 pin male
Power Supply	Internal AC Supply - Precision regulated 13.6V supply with current limiting
	and thermal shut-down. AC supply also charges internal battery at constant
	voltage 115V 60 Hz standard 220 V 50 Hz available on request Internal
	Battery Supply - A 12 volt 6 5 amp-hour sealed lead-acid maintenance free
	battery is included in the MW-500 for back-up power. This battery is
	charged by the AC supply and will power the unit up to 36 hours
Temp. Range	-20°C to +50°C operating
Dimensions	31/2" High x 19" Wide x 12" Deep.
Weight	Net 12 lbs with battery Domestic packed 17 lbs FCC ID: BEN9EZMW-500



The Model MW-500 MICROWAVE BOOSTER is designed to receive, amplify and redirect an aural STL signal over or around an obstructing object in the direct path between the transmitting and receiving antennas. Since the booster uses the same frequency for re-transmitting. scarce spectrum is conserved. The booster will provide a maximum of 500 milliwatts output

power. It will also provide 60 DB power gain at any point it is inserted in the microwave path Where applicable, the MW-500 can provide considerable cost savings over other types of repeaters The MW-500 is available with inter-nal battery backup and charger capable of operating the unit for 36 hours without commercial power

**MW-500** AURAL BROADCAST MICROWAVE BOOSTER



### **UPS-12 UNINTERRUPTIBLE POWER SYSTEM**

### \$425 LESS BATTERY

The Marti model UPS-12 is a battery backup power system designed for use with Marti equipment capable of both AC and 12V DC operation. The system will instantly and automatically switch to a battery power source when the primary AC power fails. The UPS-12 is suited for backup power for Marti STL-10/R-10 Radio Link Systems as well as Marti RPT-15/CR-10 automatic relay stations and TSL-15 data links

The DC power source is a sealed 12 Volt GEL Electrolyte maintenance free Lead-Acid battery

REFER TO PRICE LIST FOR BATTERY OPTIONS & PRICES.



of sufficient amp-hour capacity to power the equipment for the required length of time. Bat-teries of 24, 38 and 60 amp-hours are available The user may choose to purchase the battery locally to avoid shipping charges

The Model UPS-12 is equipped with a precision constant voltage "Taper" battery charger to maintain the battery in a charged condition. The charger is set at 13.6 volts and is current limited to three amps (for battery discharged to 10 volts) Fully charged batteries are trickle-charged by the constant-voltage charger

## **UPS-12 SPECIFICATIONS**

Type of System	DC-DC (Loss of primary AC power causes relay to select 12 Volt battery power)
Panel Indicators	Led indication of AC or DC operation Sealed maintenance free GEL Electrolyte Lead-Acid battery rated at 12 Volts 24 Amp hours. The battery is external and priced separately. Optional batteries of 38 and 60 A/H available.
AC Power Source	120 V. 50-60 Hz (220 V. AC Available on special order) AC source must be same as radio equipment source
Battery Charger	Precision constant voltage charging with current limiting and trickle charge. 3 amp current limit.
DC Polarity	J
Protection	Circuit breaker, fuse and diode reduce reverse polarity damage
Connectors	Screw terminals for DC, 3-Pin, receptacle for AC
Panel Size	Standard 19" x 3"
UPS-12 Weight	312 Lbs
Battery Weight	195 Lbs shipped separately Approved for shipment as Dry Cell" by DOT and lata

MARTI The performance-value leader in Broadcast Equipment.

### DIGITAL AURAL BROADCAST STL-23 STUDIO-TRANSMITTER LINKS

### 23 GHz DIGITAL STL

\* Simplex (STL) and duplex (STL/TSL) links available

- ★ FCC type accepted under parts 21 and 94
- Compatible with digital PCM video format processors (not included)
- Typical stereo audio quality delivered to broadcast transmitter using 16 bit processor

RESPONSE: 10-20,000 Hz ± 0.5 DB NOISE: - 90 DB DISTORTION: Less than .005% STEREO SEPARATION: More than 80 DB

The Marti STL-23 digital studio-transmitter link delivers all the remarkable performance of today's compact disc digital audio to the input of the broadcast transmitter. With a dynamic range of better than 90 DB and stereo separation of more than 80 DB, the STL-23 emphasizes the obsolescence of the old "composite" STL concept. The STL-23 transmitter, receiver and subcarrier boards are located inside the weatherproof antenna assembly for cost saving and ease of installation. When comparing the cost of the STL-23 to 950 MHz "composite" STL's, the cost of antennas, coaxial cable and connectors, subcarriers and telemetry return link with antennas must be charged to the real costs of 950 MHz STL's. Such comparison will show the STL-23 to be cost effective. Microwave path length at 23GHz is limited by atmospheric absorption, with rainfall having the greatest effect. Contact Marti for data for use in calculation of 23GHz links in your area.

Contact Marti for data for use in calculation of 25GF12 links in y	your area.	
PACKAGE A (5003E) BASIC VIDEO		
1 Transmitter with 24" antenna 1 Receiver with 24" antenna PACKAGE B (5006E) STEREO STL WITH SUBCARRIER 1 Transmitter with 24" antenna 1 Receiver with 24" antenna	\$7,850.00	<b>General</b> Frequenc FM Devia Channel Antenna
1 Subcarrier channel (studio to transmitter, 12 KHz BW)	\$9,300.00	Alarms .
PACKAGE C STEREO STUHTH BIDIRECTIONAL SUBCARRIE 2 Transmitter/Receiver with 24" antenna 1 Subcarrier channel (studio to transmitter, 12 KHz BW) 1 Subcarrier channel (transmitter to studio, 12 KHz BW) PCM-601ES 16 Bit Digital Processor	ER \$12,150.00 \$1,400.00	<b>Transmit</b> Power O Frequenc Spurious Video Ing Subcarrie
OPTIONS:		Receiver
COLOR VIDEO - For high quality video applications order option RS-250B TO ADD SUBCARRIERS ABOVE VIDEO BAND (6.2-8 MHz)	\$1,000.00	Noise Fig Threshol Video Ou Subcarrii
Order option "WB" and option "SCI"	\$525.00 \$1,340.00	Power Require
NOTE : Equipment packages include Radome cover for 24" shrouded antennas. mc 3 % or 4 % inch O.D., 24 V.AC power transformers, installation manual. No RF соахіа		Weight .

is required on 24" antennas. Digital audio processors not included in above prices. 48" antennas are available - add \$5,000 to package prices

FCC LICENSING: License application is made on form 402 under FCC part 94 "Private operational -Fixed microwave service" Part 94 frequencies are not coordinated by SBE. For frequency search and filing application, contact FCC Approved Date Base Service such as Spectrum Planning (214) 680-1000. Molfet, Larson and Johnson (703) 841-0500, Com Search (703) 620-6300. MFG. in USA by Racon, FCC ID B2N9CL 10050

STL-23

### SPECIFICATIONS

General
Frequency Band
FM Deviation
Channel Capacity1 video plus 2 full duplex audio/data/control subcarriers
AntennaShrouded 24 inch, 38 DBI, V or H polarization, 2°
beamwidth, + 57 DBM ERP, with Radome
AlarmsLoss of carrier alarm 10-15 VDC/1K ohms
Transmitter
Power Output65 mw typical (+ 18 DBM)
Frequency Stability ± .02% - 30°C to 55°C
Spurious Output
Video Input1 Vp-p 75 ohms
Subcarrier Input0 DBM 600 ohm bal. screw terminals
Receiver
Noise Figure
Threshold
Video Output1 Vp-p 75 ohms
Subcarrier Output0 DBM 600 ohms bal. screw terminals
Power
Requirements
240 VAC and DC options available - contact factory.
Weight
Mounting
Options
(contact factory) Hot standby switching, optical alignment tool, hori-
zontal pipe mounting kit, 4.5 inch O.D. pipe mtg.
hardware kit, 48" antenna

PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

# **TC-8 and ARC-16 REMOTE CONTROL SYSTEMS**



FEATURES	TC-8	ARC-10
<ul> <li>Metering Channels</li> </ul>	8	16
* Status Inputs	8	16
* Raise & Lower Outputs	8	16
<ul> <li>Delayed Failsafe Output</li> </ul>	Yes	Yes
<ul> <li>One Person Calibration</li> </ul>	Yes	Yes
★ Non-Volatile Memory	Yes	Yes
★ Large Dot-Matrix Display	Yes	Yes
* Optional Computer Interface	Yes	Yes
★ Radio or Wire Link	Yes	Yes
★ Space Saving 1¾" Rack Units	Yes	Yes

The AMD model TC-8 (8 Channel) and ARC-16 (16 Channel) Remote Control systems are simple to operate, reliable, and cost effective. They are available for operation with Telco, STL, SCA or TSL with interface options for antenna monitor, computer or DTMF telephone. Status alarms may be programmed to display at the transmitter and studio and, optionally, call a programmed series of numbers with a voice message. Dial-up with speech may be added to either the transmitter or studio end, as well as the computer interface.

TC-8 ARC-16	AMD, Inc. 8 Channel Remote Control (2 Units) AMD, Inc. 16 Channel Remote Control (2 Units)	\$2,495.00 \$3,495.00
ARC-16	16 Channel single unit configuration with telco/speech unit for control from any telephone	\$2,495.00
IP-8	Relay interface panel (10 Amp) 8 each status, raise, lower + failsafe. Two units required for ARC-16.	\$495.00
CI-8	Computer interface for IBM-PC	\$495.00
TSU	Telephone/Speech unit permits control from telephone using DTMF.	
	Also call-out alarms	\$595.00
SSI	Studio status indicator.	\$150.00
SID	Studio I/O unit	\$495.00
AMI	Antenna monitor interface (6 towers on 2 channels)	\$350.00
SCA-1	Subcarrier receiver-Specify FM frequency and 67 or 92 KHz.	\$168.00

SPECIFICATIONS AND PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE

# MODEL TSL-10 MODEL TSL-15 MODEL TSL-30

TELEMETRY LINKS

### MARTI TSL-10 SYSTEMS FOR PART 94, 928-960 MHz

If you are serious about data/voice transmission (TSL, ICR, TRL, etc.), you should look at part 94 "Private Operational-Fixed Microwave Service" in the 928-960 MHz band. Bandwidths of 25, 50, 100 and 200 KHz are available to broadcasters for many uses except the final link of an STL. These frequencies are professionally data base coordinated interference free channels for reliable communications. Marti has been providing FCC authorized equipment for this service over the past three years. Bandwidths are licensed based upon demonstrated need; the wider channels reserved for wide band FM, high data rate, or multichannel uses. Marti multichannel systems are not timeshared, which means that data flows continuously on each channel. License application is on Form 402. Frequency coordination is by approved firms like Spectrum Planning (214) 680-1000. Moffet. Larson and Johnson (703) 841-0500, Com Search (703) 620-6300. If you have requirements not met by the following part 94 pacakges, contact Marti for assistance.

PACKAGE 94-1 SINGLE CHANNEL 1 STL-10 Transmitter 1 R-10 Receiver		PACKAGE 94-4 FOUR CHANNELS 1 STL-10 Transmitter 1 R-10 Receiver 3 Subchannels	\$7,420.00
PACKAGE 94-2 TWO CHANNELS 1 STL-10 Transmitter 1 R-10 Receiver 1 Subchannel	\$4,640.00	Additional Receive sites	\$2,320.00
PACKAGE 94-3 THREE CHANNELS 1 STL-10 Transmitter 1 R-10 Receiver 2 Subchannels	\$6,030.00	Antenna systems for above package upon path length, number of receive Contact factory for assistance. For and receiver specifications, see page	e sites, etc. transmitter



### TSL-10 FEATURES (PART 94, 928-960 MHz)

- Four continuous data/voice channels on single carrier
- Multiple receive sites possible.
- 25 KHz, 50 KHz, 100 KHz, 200 KHz bandwidths available. \*
- Transmitter FCC authorized for part 94 service. FCC ID: BEN9EZSTL-10/950
- Battery Backup Available with Marti UPS-12.



### MARTI TSL-15 AND TSL-30 SYSTEMS FOR PART 74, 450-456 MHz

The Marti TSL-15 and TSL-30 Telemetry Links provide reliable telemetry circuits for AM, FM and television stations. Expensive and unreliable Telco lines can now be replaced with cost effective Marti TSL Systems. These links are simple to install, easy to operate and maintain. Marti has assembled complete equipment packages consisting of Transmitter, Receiver, Yagi Antennas, Identifier and optional items.

\$3,129.50

\$2,544.50

\$404.00

### TSL-30 PACKAGE (30 WATTS)

1	RPT-30/450	Transmitter

1 CB-10/450 Receiver

- 1 Model 1300 Station Identifier
- 1 700-253 Rack Mounting Kit

### PACKAGE PRICE

### **TSL-15 PACKAGE (15 WATTS)**

- 1 RPT-15/450 Transmitter
- 1 CR-10/450 Receiver
- 1 Model 1300 Station Identifier 1 RMH-3B Rack Shelf

PACKAGE PRICE

PART 74 TSL ANTENNA PACKAGE\*

- 26 Element, 10 db gain Yagi Antenna 1 PG-2A Jumper Cable 1 PG-2B Jumper Cable
- 2 K-1 Weatherproofing Kit

PACKAGE PRICE

### SYSTEM SPECIFICATIONS

Frequency , . ,	(Group P) 450.01, 450.02, 450 98, 450.99 455.01, 455.02, 455.98, 455.99 MHz. FCC 74.402 (a) (7)
Modulation	10F3 (± 1.5 KHz Deviation)
Frequency	
Response	50 Hz - 2800 Hz ± 2.0 DB
Distortion	2% THD
Signal to Noise	
Ratio	45 DB
TRANSMITTER See specification	for RPT 15/450 or RPT-30.
RECEIVER	

See specification for CR 10/450 receiver

### STATION IDENTIFIER

A model 1300 station identifier is required by FCC rules for all domestic TSL systems to identify the TSL transmitter. Call signs for the identifier are assigned by the FCC when TSL frequencies are approved

RPT-30 FCC ID: BEN9EZRPT30-450 RPT-15 FCC ID: BEN9EZRPT15-450

\*Package prices do not include cost of two "N" female and two "N" male connectors and 1/2" transmission line



**RPT-30 TRANSMITTER** 

### TSL-15 AND TSL-30 FEATURES (PART 74, 450-456 MHz)

- \* Choice of Transmitter Power 15 or 30 watts Continuous Dutv
- Transmitters are FCC type accepted.
- Super-Selective Receiver with 90 db spurious rejection. \*
- \* Test Meter built into both transmitter and receiver
- Receiver has adjustable squelch and carrier operated relay \* + Built-in modulation control.
- Internal AC supply in transmitter and receiver with provision × for external DC operation. (UPS-12)
- Optional Automatic Station Identifier
- Analog or Digital Telemetry or Voice Modulation in 50 Hz-2800 Hz band.
- Mic and Line Level inputs with mixing controls.
- Built in 27 Hz status channel with relay contacts.



SPECIFICATIONS AND PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE

MARTI ELECTRONICS, INC. STL GENERAL PRICE LIST

Model	Description of Item	Price
Model		Flice
STL-10 Transmitter	STL-10 transmitter for all mono and stereo STL systems in 150, 215, 300, 450 or 950 bands.	\$1,625.00
STL-30 Transmitter	Export Mono STL transmitter 45 watts-150 MHz, 40 watts-215 MHz, 35 watts-300 MHz, 30 watts-450 MHz band.	\$1,995.00
R-10 Receiver	STL receiver in 150, 215, 300, 450 or 950 bands, low pass filter, two IF band- widths, low power consumption, test meter.	\$1,625.00
MW-500 Booster	On-frequency microwave booster for re-transmitting STL signal around obstruc- tions. 500 mw output power. Comes with internal battery.	\$2,495.00
STL-10/950 System	Domestic STL Mono System in 800-960 MHz band with one STL-10 transmitter and one R-10 receiver.	\$3,250.00
STL-10/950 System	Domestic STL Stereo System in 800-960 MHz band with two transmitters and receivers, combiners, etc.	\$6,925.00
STL-10/150 System	Export STL Mono System in 140-180 MHz band with one STL-10 transmitter and one R-10 receiver.	\$3,250.00
STL-10/215 System	Export STL Mono System in 200-260 MHz band with one STL-10 transmitter and one R-10 receiver.	\$3,250.00
STL-10/300 System	Export STL Mono System in 280-340 MHz band with one STL-10 transmitter and one R/10 receiver.	\$3,250.00
STL-10/450 System	Export STL Mono System in 400-480 MHz band with one STL-10 transmitter and one R-10 receiver.	\$3,250.00
STL-30/150 System	Export STL Mono System, 140-180 MHz, one 45 watt STL-30/150 transmitter and one R/10 receiver.	\$3,620.00
STL-30/215 System	Export STL Mono System, 200-260 MHz, one 40 watt STL-30/215 transmitter and one R/10 receiver.	\$3,620.00
STL-30/300 System	Export STL Mono System, 280-340 MHz, one 35 watt STL-30/300 transmitter and one R/10 receiver.	\$3,620.00
STL-30/450 System	Export STL Mono System, 400-480 MHz, one 30 watt STL-30/450 transmitter and one R/10 receiver.	\$3,620.00

# **STL ACCESSORIES**

REMOTE	CONTROL
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Model	Description of Item	Price
TC-8	AMD Remote Control, 8 each metering, raise, lower, status.	\$2,495.00
ARC-16	AMD Remote Control, 16 each metering, raise, lower, status.	\$3,495.00
P-8	Transmitter relay interface panel (two required for ARC-16)	\$495.00
CI-8	Optional computer interface	\$495.00
SU	Telephone Speech Unit	\$595.00
T4A	SCA receiver for metering	\$168.00
80-016	AC power cord for STL-10 transmitters and R-10 receivers	\$5.50
APS-28/18	Power supply for operation of STL-10 transmitters and R-10 receivers from 24 VDC.	\$65.00
SO-200D	Unit for switching between two STL receivers. User needs to specify frequency.	\$650.00
TS-15D	Automatic transmitter switcher: (2) PG-1.5 cables with UG-58 "N" female connectors.	\$750.00
BPF-39/67	39/67 KHz subcarrier band pass filter/amplifier for R-10 receiver. Filters and amplifiers sub signal at STL relay station.	\$249.00
VP-498-1	Wacom single section, selective cavity resonator, 950 MHz	\$224.50
VP-430-1	Selective cavity resonator, single-section for operation in the 148-174 MHz. band.	\$191.50
VP-470-1	Selective cavity resonator, single-section for operation in the 406-512 MHz. band	\$160.00
Crystal	Hi-accuracy STL-10 and R-10 crystals	\$17.95
540-075	Duplexer, 6-cavity, combines transmitter and receiver to common antenna & line; 3.6 MHz separation. Ferrite isolator and PG-2B included.	\$1,016.00

# STL ACCESSORIES Continued

**STL ANTENNAS** 

Model	Description of Item	Price
TAD-900-2	Transmitter combiner with cables to combine output of (2) STL-10/950 transmitters to one antenna. Nominal isolation 70 DB, 3.45 DB loss.	*
TAD-900-4	Transmitter combiner with cables to combine output of (4) STL-10/950 transmitters to one antenna. Nominal isolation 70 DB, 6.9 DB loss.	*
K-1	Grounding and weatherproofing kit	\$12.00
RMC-10	Remote control for STL-10 transmitters	\$315.00
SCG-10	Subcarrier Generator tuned to 26, 39, 41, 67 or 92 KHz, rack mount, 120 VAC (220 VAC on request)	\$695.00
SCD-10	Subcarrier Demodulator tuned to 26, 39, 41, 67 or 92 KHz, rack mount, 120 VAC (220 VAC on request)	\$695.00
800-263	Optional compander board for factory or field installation in SCG-10 and SCD- 10. Two (2) plug-in PC boards.	\$400.00
UPS-12	Uninterruptible power system for Marti STL-10, R-10 ARS-15 relay and TSL-15 data link. (LESS LCR-12V-24P battery)	\$425.00
LCR-12V-24P	Battery, sealed gel lead-acid, 12 volt. 24 amphours for use with Marti uninterruptible power supply UPS-12	*
040-007	Spare battery for MW-500	*

### TYPE N FEMALE CONNECTORS

Model	odel Description of Item				
DB-438	Yagi antenna, 6 element, 10.0 db gain, 450-470 MHz.	*			
P-9A48GN-1	Mark Product parabolic antenna, 4' multi-element dish, 18.9 db gain, non- pressurized feed, 890-960 MHz	*			
P-9A72GN-1	Mark Product parabolic antenna, 6' multi-element dish, 22 db gain, non- pressurized feed, 890-960 MHz	*			
P-9A96GN-1	Mark Product parabolic antenna, 8' multi-element dish, 25 db gain, non- pressurized feed, 890-960 MHz	*			
P-9A120GN-1	Mark Product parabolic antenna, 10' multi-element dish, 27 db gain, non- pressurized feed, 890-960 MHz	*			
SH-872GN	Mark Product "Shorthaul" cylindrical antenna, 19 db gain, 890-960 MHz	*			
YC-150	Yagi antenna, 5 element, 9 db gain, 140-180 MHz	\$165.00			
YC-215	Yagi antenna, 5 element, 9 db gain, 200-260 MHz	\$165.00			
YC-300	Yagi antenna, 5 element, 9 db gain, 280-340 MHz	\$165.00			

# STL TRANSMISSION LINE, CABLES, CONNECTORS

Model	Description of Item	Price
L44N	Type "N" female connector for $\frac{1}{2}$ " foam transmission line	*
L44W	Type "N" male connector for ½" foam transmission line	*
L45N	Type "N" female connector for 1/2" foam transmission line	*
L45W	Type "N" male connector for %" foam transmission line	*
LDF4-50	Foam transmission line, ½", 50 ohm, jacketed	*
LDF5-50	Foam transmission line, %", 50 ohm, jacketed	*
PG-1.7B	Jumper cable, 20" of RG-214 w/UG-21 connectors	\$26.50
PG-2A	Jumper cable, 2' of RG-8U w/PL-259 & UG-21 connectors	\$25.00
PG-2B	Jumper cable, 2' of RG-8U with UG-21 connectors	\$25.00

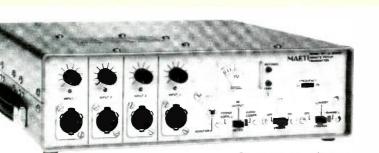
\*Call Factory For Current Price



# The performance-value leader in Broadcast Equipment.

Marti Electronics, Inc., P.O. Box 661, Cleburne, Texas 76033-0661 (817) 645-9163 Telex #794835 "Marti CLBN" Fax (817) 641-3869

# REMOTE PICKUP BROADCAST TRANSMITTER



Single Freq. \$1695 Dual Freq. \$1725

### **RPT-30 SPECIFICATIONS**

Frequency Range and Maximum Power Output RF Connector Operating Temp. Range Modulation (Specify)	140-180 MHz - 45 Watts 200-260 MHz - 40 Watts SO-239 -10°C to +45°C See system specifications	280-340 MHz - 35 W 400-480 MHz - 30 W		
Channels (Frequencies)	Two frequencies selected b	y switch. Freq. separa	ation 1.1% max	
Frequency Stability				
Spurious Emission	Meets FCC Requirements			
Audio Inputs	Four Balanced microphone (150 ohm) inputs (XLR3) with mixing controls. One input switchable to balanced line level at mic. No. 4 input and "D" connector on rear			
Modulation Control	Broadcast quality Compre	ssor/Limiter built in.		
Encoding	Subaudible tone (27 Hz.) encoder built in.			
Metering/Indicators	<ul> <li>Illuminated meter indicates audio compression, relative RF output, relative supply voltage. Flashing LED's indicate "Antenna" (VSWR) and high "Temp"</li> </ul>			
Controls	(4) input level, meter sw.,			
Power Requirements	110-125 V 50-60 Hz (220 V 11-13.5 V negative ground	50 Hz. available on spi	ecial order (DC operation on	
Accessory Connector Weight Dimensions	12.4 lbs net. 16 lbs. shippir	ng wt F	ol, encode. line level input FCC ID: BEN9EZRPT30-150 BEN9EZRPT30-450	

ATIONS	CHANNEL BANDWIDTH	FCC EMISSION DESIGNATOR	TRANSMITTER DEVIATION ± KHz	RECEIVER MODEL	SYSTEM FREQ. ±1.5 DB	<b>THD</b> > ⁰⁄₀	S/N WITHOUT 800-278 NOISE REDUCTION DB	S/N WITH 800-278 NOISE REDUCTION DB
EM	50	50KOF3E	8	AR-10 CR-10	50-10,500	2	54	65
SYSTE	25	25KOF3E	5	AR-10 CR-10 DR-10	50-7,500	2	50	57
	10	10KOF3E	1.4	CR-10	50-3,000	2	45	

\$400.00

\$500.00

### A REMOTE PICKUP TRANSMITTER IS A "MARTI"

Most everyone in broadcasting knows what a "MARTI" is. It is the trusted friend that is used on remote pickup broadcasts. The model RPT-30 transmitter incorporates the best, most practical mix of features requested by our customers and implemented in the very latest electronic and manufacturing technology. We never forget the most important feature of all - SIMPLICITY -THE FEATURE THAT ENABLES NON TECHNICAL PER-SONNEL TO PRODUCE PROFESSIONAL SOUND-ING LIVE REMOTES.

After 32 years of leadership, Marti is still innovating. Our new optional noise reduction system, under development for several years, utilizes a combination of adaptive filtering and audio companding to achieve remarkable improvements in receiver threshold performance in the presence of noise, interference and multi-path signal propagation. This advanced noise reduction system produces results equivalent to increasing transmitter power to 250 watts!

### **RPT-30 FEATURES:**

- Frequency switch selects both frequency and deviation simply - preventing operator error and interference.
- Subaudible encoder activates repeaters or other equipment simply by a single switch (standard equipment on all Marti RPU)
- ★ Illuminated meter displays compressor gain reduction, relative power output or power supply voltage
- ★ Flashing LEDs indicate antenna VSWR problems and overtemperature condition
- ★ Automatic modulation control by built-in FM compressorlimiter
- ★ Four balanced microphone mixing inputs, one switchable to balanced line level
- \* Continuous duty-broadcast quality
- ★ FCC type accepted
- Compatible with Marti mobile repeater, fixed automatic repeater and base station

SPECIFICATIONS AND PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

### MODEL 800-278 AUDIO COMPANDING SYSTEM

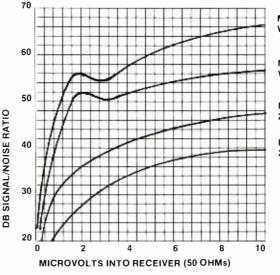
32 years experience with broadcast remote pickup systems has shown the critical factor in system performance to be receiver quieting. Most RPU work is with signals from 0.5 to 10 microvolts. Noise, fading and multipath propagation can periodically cut signal strength to less than a microvolt, spoiling an otherwise perfect broadcast. By employing a high performance 2:1 companding system complemented by adaptive filtering circuits in an ultra-sensitive state of the art receiver, Marti has greatly improved weak signal performance. The graph tells the story.

### MODEL 800-278 SYSTEM PRICES

Factory installed with new equipment order for RPT-2, RPT-15 or RPT-30 transmitter and AR-10, CR-10 or DR-10 receiver.

Factory installed in **USED** RPT-2, RPT-15 or RPT-30 transmitter and AR-10, CR-10 or DR-10 receiver.

SYSTEM WILL NOT OPERATE IN OLDER EQUIPMENT.



### MARTI 50KHz CHANNEL WITH COMPANDING

MARTI 25KHz CHANNEL WITH COMPANDING

MARTI 25KHz CHANNEL

BRAND X 25 KHz CHANNEL

**RTI** The performance-value leader in Broadcast Equipment.

### MODEL RPT-15

# PORTABLE/MOBILE/AIRBORNE TRANSMITTER

\* Built-in AC supply

\* FM Compressor-Limiter.

\* Mixing mic and line inputs

### **RPT-15 SPECIFICATIONS**

Frequency Range RF Cutput. RF Connector. Operating Temp. Range Modulation. Dual Frequency Spurious Emission. Audio Inputs. Audio Input Level.	400-480. 280-340. 200-260 & 140-180 MHz 15 watts max. into 50 ohms SO-239 -10°C to +45°C See system specifications Selectable dual-frequency operation Freq. separation 1 1% max. Meets FCC Requirements One microphone and one high level unbalanced input Individual mixing gain controls Microphone input level can be from -68 DB to -35 DB High level can be from 0 2 volts rms. 8-600 ohms.
Audio Input Impedance Audio Connectors Power Requirements Modulation Control Metering Weight Dimensions	Will accept microphone from 150 to 500 ohms. Input No 1 (XLR-3). Input No 2 miniature phone jack 110-125 V 50-60 Hz. 12:6 V DC (neg gnd.) 2 25 Amps. 28 V. DC (neg gnd.) 2 25 amps* Broadcast quality Compressor/Limiter built in Panel meter indicates audio compression. RF output, power supply DC. 9'+ Ibs net: 14 Ibs. gross 8 %" wide x 3 %" high x 12 %" deep.

\*28 V DC operation requires APS-28 18 power supply.

### **RPT-15 FEATURES:**

- ★ Type accepted on all VHF-UHF RPU channels. ★ Built-in metering.
  - 15 watts continuous output.
- \* Dual frequency capability.
- ★ Sub audible encoder.

**RPT-2 FEATURES:** 

### Type accepted on all VHF-UHF

- RPU channels.
- \* 2.5 watts continuous output.
- \* Dual frequency provision.
- \* Sub audible encoder.
- Built-in metering.
- 3-way power option.
- Internal ni-cad battery.
- Internal charger and AC supply.
- FM Compressor-Limiter.
   Mixing mic and line inputs.
- \* wixing mic and me input

### RPT-2 without internal battery: Single Freq. - \$995 Dual Freq. - \$1,025

### RPT-2 with internal battery: Single Freq. - \$1,045 Dual Freq. - \$1,075

FCC ID: BEN9EZRPT2-150 BEN9EZRPT2-450

SYSTEM SPECIFICATIONS PAGE 10

# MODEL AR-10 MOBILE RELAY RECEIVER

### **AR-10 SPECIFICATIONS**

Frequency Range				
Dual Frequency	Provision for Dual F	requency.	Separation 0	.2% Max.
Sensitivity	0.5 microvolts for 20	db. S/N.		
Input impedance	50 ohms.			
Frequency Stability	+.00025%-10°C to +5	50° C.		
Selectivity		3 DB		60 DB
	F 50	50 KHz		100 KHz
	F 36	36 KHz		60 KHz
	F 25	25 KHz		42 KHz
	F 10	8 KHz		15 KHz
Spurious Response	90 db.			
Audio Output (Line Levei)	Balanced 600 ohms.	-9 dbm., E	arrier strip.	
	Unbalanced 600 ohn			nnector.
Monitor Output				
-	trol. Headset monito			
Subaudible Tone Decoder				ure upon receipt of 27
	Hz. $\pm$ 0.1 Hz. Tone.	•	,	
Front Panel Controls	.Frequency select sw	/itch. line l	evel adjust. r	meter switch, squelch
	adjust, monitor spea			
Power Requirements				
AC Power Supply				
Metering				
Dimensions				
Weight				
RF Connector		, puonou i	0 100.	
	FCC Approved Unde	er Part 15	FCC ID: BE	N9EZAR-10/150

\*Available on 220 Vac, 50 Hz. upon request.



MODEL RFT-15 is a compact **15 watt transmitter** designed for portable and mobile remote broadcast service. It delivers the maximum power allowed by the FCC for airborne remotes such as traffic reports. The RPT-15 has a built-in power supply for operation on 115V. AC. It will also operate on an external 12-14 volt DC supply. Standard features include dual frequency and subaudible encoder for use with Marti automatic mobile repeaters and automatic fixed repeaters. All this plus famous Marti broadcast quality and continuous duty operation.

Single Freq. \$1,075 Dual Freq. \$1,105

SYSTEM SPECIFICATIONS PAGE 10

FCC ID: BEN9EZRPT-15-150 BEN9EZRPT15-450

# MODEL RPT-2 HAND-CARRIED TRANSMITTER

The **RPT-2** is a hand-carried broadcast quality, **continuous duty transmitter**. It will operate from its internal ni-cad battery, from 115 V. AC power, or from external 12 V. DC power. A special sub-audible encoder enables the RPT-2 to access Marti mobile repeaters for coverage of indoor events. 2.5 watts is the maximum power allowed by FCC Rule 74.431 (C) (1).

### **RPT-2 SPECIFICATIONS**

RF Output RF Connector Operating Temp.	Maximum 2.5 watts max. into 50 ohms SO-239
Range	-10°C to +45°C
Modulation	See system specifications
Dual Frequency	Selectable dual-frequency operation
Spurious Emission	Meets FCC Requirements
Frequency Stability	-30°C to +50°C + 0005%
Audio Inputs	One microphone input (push-to-talk) and one high level unbalanced input. Individual mixing gain controls.
Audio Input Level	Microphone input level can be from -68 DB to -35 DB. High level can be from 0.2 volt to 2 volts rms 8-600 ohms
Audio Input	
Impedance	Will accept microphone from 150 to 500 ohms.
Audio Connectors	Input No. 1 (XLR-3). Input No. 2 miniature phone jack
Power	
Requirements	1*0-125 V 50-60 Hz. 12.6 V DC (neg. gnd.) 750 MA internal n⊢cad battery and charger
Modulation Control	Broadcast quality Compressor/Limiter built in
Metering	Panel meter indicates audio compression, RF output, power supply DC
Weight	5% lbs. net: 7% lbs. gross
Dimensions	8 " wide x 3 <sup>3</sup> 4" high x 11" deep



The Marti AR-10 series receiver is a portable or mobile repeater receiver. This receiver has a built-in AC power supply, and will operate from an external source of 12-15 volts DC. A built-in sub-audible tone decoder meets FCC rule 74.431 allowing this receiver to automatically turn on a mobile transmitter upon receiving an encoded signal from a hand-carried portable transmitter, thus automatically relaying a broadcast to the base station receiver over a greater distance. The receiver operates on all remote pickup frequencies and band widths. Other built-in features include dual frequency capabilities, monitor speaker, and terminals for feeding telephone lines in portable operations. A special noise reduction circuit provides an improvement of 6 db in S/N ratio for weak signals. The unit weighs only 5½ pounds.

AR-10 Single Frequency \$1,195.00 AR-10 Dual Frequency \$1,225.00 MODEL CR-10 MODEL DR-10

# REMOTE PICKUP BROADCAST RECEIVERS





### **CR-10 FEATURES**

- ★ GaAs Fet low noise RF amplifier 200-480 MHz.
- ★ Double balanced mixer.
- ★ Four I.F. bandwidths available.
- \* Companding option available.
- \* Six function illuminated test meter.
- \* Built-in tone decoder and relay.
- ★ Monitor speaker and control.
- \* All modular construction.

**Model CR-10** is a rack-mounted VHF or UHF base station receiver designed for broadcast remote pickup service. This receiver has dual frequency capability built in. Marti Technology has provided the highest frequency response with the lowest noise and distortion possible for the assigned channel band width. Special attention has been given to solving today's high interference problems. The CR-10 features a built-in test meter, squelch relay, monitor speaker, subaudible tone decoder, special noise reduction circuit, 90 DB spurious rejection.

CR-10 Single Frequency CR-10 Dual Frequency \$1,195 \$1,225

<b>CR-10 SPECIFICATIONS</b>	CR-1	0	SP	EC	IFI	CA	ΤI	ON:	S
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Frequency Range Dual Frequency Sensitivity Input Impedance Frequency Stability	400-480, 280-340, 200-260 & 140-180 MHz. Provision for Dual Frequency. Separation 0.2% Max. 0.5 microvolts for 20 db. S/N. See page 10 50 ohms +.00025%-10°C to +50°C.					
Selectivity	Filter	3 DB	60 DB			
	F 50 F 36	50 KHz 36 KHz	100 KHz 60 KHz			
	F 25	25 KHz	42 KHz			
	F 10	8 KHz	15 KHz			
Spurious Response	-90 db.					
Audio Output	Balanced 600 ohms.					
Monitor Output	0.5 watt monitor am					
Subaudible Tone Decoder	Hz. tone.	rd provides relay	closure upon receipt of 27			
Front Panel Controls		vitch. program I	evel adjust, meter switch.			
	squelch adjust.					
Power Requirements	120/220* VAC, 50/60					
AC Power Supply	Precision, electronically regulated with current limiting.					
Metering	RF signal level, audio output level, sub, level, +13 V.DC supply, L.O. level, mixer level, LED indicators for power and open sauelch.					
Squeich Indicator	A panel LED indicates when the squelch relay is open to aid in					
	squelch adjustment.					
Accessory Connector	A 15 pin "D" connector located on rear panel provides access to +13 V. and +18 V. supplies. squelch relay contacts, signal level sample, subaudible tone level, decode relay contact, balanced audio output, receiver mute, and ground					
RF Protection	All input/output circuits are filtered for RF. An all aluminum enclosure insures total shielding and bonding for RF protection.					
Operating Temp. Range	-10°C to +50°C.	J				
Dimensions	31%" High x 19" Wid	de x 12" Deep				
Weight RF Connector	Net 10 Ibs. Domesti UG-58	ic packed 17 lb	S.			
FCC Approved Under Part 15	FCC ID: BEN9EZCF	I-10/150 BEN 9	EZCR-10/450			

\*Available on 220 Vac. 50 Hz. upon request

# BASE RECEIVER

### **DR-10 SPECIFICATIONS**

Dual Frequency	± .00025% 0°C to +50°C.
Panel Light	LED indicates when squelch is open
Controis	Frequency select switch, meter function switch, squelch pot. program level pot.
Accessory Connector	15 pin "D" connector provides access to +13 V.DC, +18 V.DC, squelch relay contacts, decode relay contacts (optional), balanced audio output, mute, ground.
RF Connector	UG-58
AC Power Supply	Precision, electronically regulated with current limiting.
Power Requirements	120 V.AC. 50/60 Hz., 10 watts, 13.5 V.DC, 300 MA (220 V.AC 50/60 Hz available if specified with order), 24-28 V.DC operation with optional APS-28/18 supply.
Operating Temp. Range	-10°C to +50°C.
Dimensions	19" Wide x 12" Deep x 1¾" High
Weight	4.5 lbs. net, domestic packed 9 lbs.



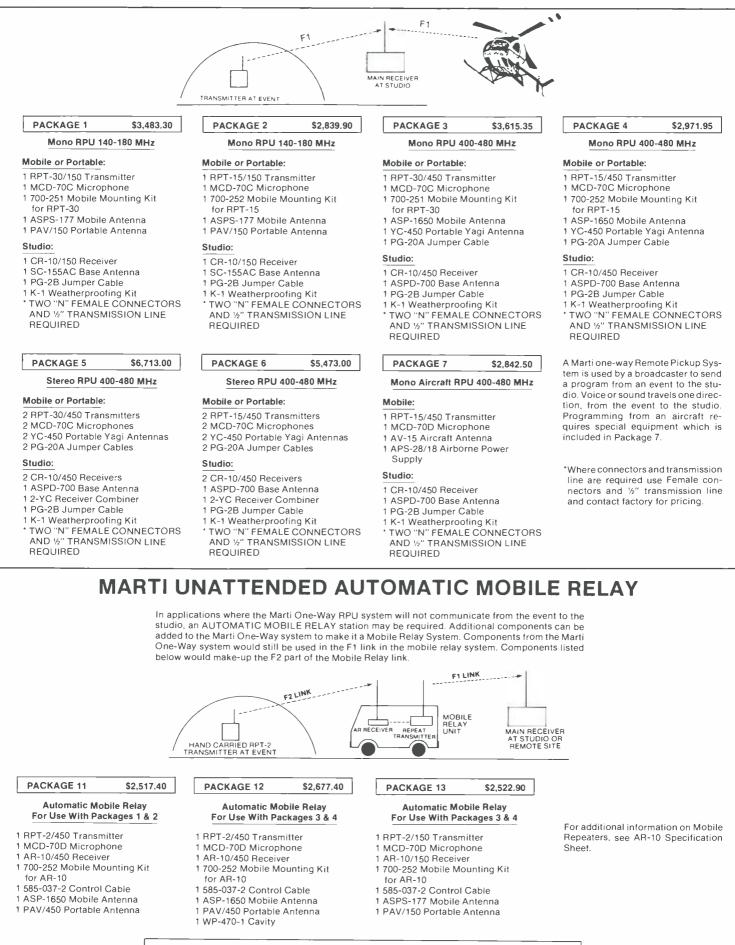
### **DR-10 RECEIVER**

The model DR-10 is a rack mounted base station receiver designed for VHF or UHF broadcast remote pickup service. This receiver requires only 1¾" of rack space and is recommended as a cost effective replacement for older tube-type and solid state receivers in areas of moderate signal density and interference. Dual frequency capability is standard, with tone decoding and audio companding available as options. The DR-10 is designed for 25 KHz bandwidth channel only and has 7.5 KHz audio low pass filtering. Available after 8/89.

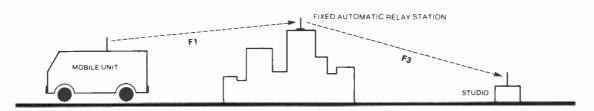
DR-10 Single Frequency	\$895
DR-10 Dual Frequency	\$925

SPECIFICATIONS AND PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

# MARTI REMOTE PICKUP (RPU) ONE-WAY SYSTEMS



# MARTI UNATTENDED AUTOMATIC **FIXED RELAY STATION**



Automatic Relay Stations greatly increase the operating range and coverage areas of broadcast news and remote coverage of events. When used with MARTI portable, mobile and base station units, full broadcast quality audio is provided. Unlimited transmitting time is available since this equipment is designed for continuous 24 hour per day operation. Automatic Relay Stations (ARS) are available in two models. An ARS-15 transmits with a RPT 15 transmitter and an ARS-30 transmits with a RPT 30 transmitter. Both systems transmit the F3 frequency above in the 450 to 455 MHz band. F-3 must be at least 4.0 MHz from F-1.

### EQUIPMENT TO BE LOCATED AT AUTOMATIC RELAY SITE

PACKAGE 40 \$3,441.50	PACKAGE 41	\$2,876.50	PACKAGE 42	\$4,061.50	PACKAGE 43	\$3.496.50	
160 MHz In/450-455 MHz Out:	160 MHz In/450-455 MHz Out:		450 MHz In/455 MHz Out:		450 MHz In/455 MHz Out:		
1 CR-10/150 Receiver 1 585-037-1 Repeater Cable 1 SC-155AC Receiving Antenna 1 PG-2B Jumper Cable 1 K-1 Weatherproofing Kit *TWO "N" FEMALE CONNECTORS AND %" TRANSMISSION LINE REQUIRED	1 CR-10/150 Receiver 1 585-037-1 Repeater Cable 1 SC-155AC Receiving Antenna 1 PG-2B Jumper Cable 1 K-1 Weatherproofing Kit *TWO "N" FEMALE CONNECTORS AND ½" TRANSMISSION LINE REQUIRED		1 CR-10/450 Receiver 1 585-037-1 Repeater Cable 1 ASPD-700 Base Antenna 1 PG-2B Jumper Cable 1 K-1 Weatherproofing Kit *TWO "N" FEMALE CONNECTORS AND ½" TRANSMISSION LINE REQUIRED		1 CR-10/450 Receiver 1 585-037-1 Repeater Cable 1 ASPD-700 Base Antenna 1 PG-2B Jumper Cable 1 K-1 Weatherproofing Kit *TWO "N" FEMALE CONNECTOR: AND ½" TRANSMISSION LIN REQUIRED		
1 RPT-30/450 Transmitter 1 700-253 Rack Mounting Kit for RPT-30 1 PG-2A Jumper Cable 1 K-1 Weatherproofing Kit	1 RPT-15/450 Trans 1 RMH-3B Rack She 1 PG-2A Jumper Ca 1 K-1 Weatherproof •TWO "N" FEMALE	elf able ing Kit : CONNECTORS	1 RPT-30/450 Trans 1 700-253 Rack Mor for RPT-30 1 WP-678 Duplexer	unting Kit	1 RPT-15/450 Tran: 1 RMH-3B Rack Sh 1 WP-678 Duplexer	elf	
*TWO "N" FEMALE CONNECTORS AND 1/6" TRANSMISSION LINE REQUIRED 1 YC-450 Yagi Antenna** **If TWO-WAY communication is required, replace YC-450 with ASPD-700 Base Antenna	AND 1/2" TRANS REQUIRED 1 YC-450 Yagi Ante ••If TWO-WAY co required, replac ASPD-700 Base A	nna** ommunication is ce YC-450 with	*Where connectors and transmissio line are required use Female co nectors and ½" transmission li on is and contact factory for pricing.		Female con- mission line		

## EQUIPMENT TO BE LOCATED AT STUDIO

\$1,568.00

|--|

### One Way w/Fixed Repeater:

- 1 CR-10/450 Receiver
- 1 ASPD-700 Base Antenna
- 1 PG-2B Jumper Cable
- 1 K-1 Weatherproofing Kit
- \*TWO "N" FEMALE CONNECTORS AND ½" TRANSMISSION LINE
- REQUIRED



160 MHz Mobile Frequency to Fixed Repeater with a 450 or 455 MHz output frequency use Mobile part of Package 1, Package 40 or 41 and Package 46.

160 MHz Mobile Frequency to Fixed Repeater with a 450 or 455 MHz output frequency use Mobile part of Package 2, Package 40 or 41 and Package 46.

450 MHz Mobile Frequency to Fixed Repeater with a 455 MHz output frequency use Mobile part of Package 3, Package 42 or 43 and Package 46.

450 MHz Mobile Frequency to Fixed Repeater with a 455 MHz output frequency use Mobile part of Package 4, Package 42 or 43 and Package 46.

For Two-Way Communication on either Fixed Automatic Repeater or Two-Way Communication between event and direct to Studio, contact factory for equipment and quote.

MARTI ELECTRONICS, INC. RPU GENERAL PRICE LIST

speaker, tone decode. AVAILABLE AFTER 8-1-89

**ICE LIST** Prices effective 4-29-89 Prices subject to change without notice.

TRANSMITTERS	Description of Item	Price
RPT-2	Hand-carried, portable 2.5 watt transmitter <b>without</b> battery, single freq., tone encoder, UHF or VHF	\$995.00
RPT-2	Hand-carried, portable, 2.5 watt transmitter <b>with</b> battery, single freq., tone encoder, UHF or VHF	\$1,045.00
RPT-2-2	Hand carried, portable 2.5 watt transmitter <b>without</b> battery, dual freq., tone encoder, UHF or VHF	\$1,025.00
RPT 2-2	Hand-carried, portable, 2.5 watt transmitter <b>with</b> battery, dual freq., tone encoder, UHF or VHF	\$1,075.00
RPT-15	15 watt transmitter, single freq., compact portable or airborne, with tone encoder, UHF or VHF	\$1,075.00
RPT-15-2	15 watt transmitter, dual freq., compact portable or airborne, with tone encoder, UHF or VHF	\$1,105.00
RPT-30	30 watt transmitter at 450 MHz and 45 watts at 140-180 MHz, continuous duty, single freq., 4 audio inputs, tone encoder, UHF or VHF	\$1,695.00
RPT-30-2	30 watt transmitter at 450 MHz and 45 watts at 140-180 MHz, continuous duty, dual freq., 4 audio inputs with tone encoder, UHF or VHF	\$1,725.00
RECEIVERS	Description of Item	Price
AR-10	RPU mobile repeat receiver, single freq., UHF or VHF, built in AC power supply or operates on 12-15 VDC.	\$1,195.00
AR-10-2	RPU mobile repeat receiver, dual freq., UHF or VHF, built in AC power supply or operates on 12-15 VDC.	\$1,225.00
CR-10	RPU rack mount receiver, single freq., UHF or VHF, with monitor speaker in front panel.	\$1,195.00
CR-10-2	RPU rack mount receiver, dual freq., UHF or VHF, with monitor speaker in front panel.	\$1,225.00
OR-10	RPU rack mount receiver, single freq., UHF or VHF, does not include monitor speaker, tone decode. AVAILABLE AFTER 8-1-89	\$895.00
DR-10-2	RPU rack mount receiver, dual freq., UHF or VHF, does not include monitor	\$925.00

# **RPU ACCESSORIES**

Model	Description of Item	Price
Crystal	Hi-accuracy crystal for RPU transmitters & receivers	\$17.95
APS-28/18	Airborne power supply 28-18 VDC for RPT-15.	\$65.00
K-1	Grounding and Weatherproofing kit.	\$12.00
040-001-1	Internal battery for RPT-2 transmitter.	\$72.00
040-009	Portable battery for RPT-15 transmitter with belt strap, case & charger	\$100.00
2-YC	RPU receiver combiner 152-456 MHz.	\$65.00
2YC-150	Stacking harness, for stacking two YC-153, YC-161, YC-160, YC-166 or YC-170 Yagi antennas.	\$65.00
2YC-450	Stacking harness, for stacking two YC-450 Yagi antennas and "T" bar assembly.	\$85.00
580-116	AC power cord for RPT-2, RPT-15, RPT-30, AR-10 & CR-10.	\$5.50
585-069	DC power cord for RPT-2 transmitter with connectors.	\$21.00
585-070	DC power cord for RPT-15 transmitter with connectors.	\$21.00
586-074	DC power cord for RPT-30 transmitter with fuse & cable.	\$19.50
700-251	Mobile mounting kit for RPT-30, 4 mtg. fasteners with DC power plug, fuse and cable.	\$48.60
700-252	Mobile mounting kit for RPT-15 or AR-10.	\$25.20
00-253	Rack mounting kit for RPT-30 transmitter.	19.50
00-226	Coaxial relay board, 50 ohm, N female connectors.	\$54.60
300-278 System	Audio companding boards for RPT-2, RPT-15 or RPT-30 transmitters ONLY (2 boards) and AR-10, BR-10, CR-10 or DR-10 receivers ONLY (1 board) NOT FOR OTHER MODELS.	\$400.00

# **RPU ACCESSORIES** Continued

Model	Description of Item	Price
633-6	Duplexer with cables to connect AR-10/450 receiver & RPT-30 transmitter to common antenna. MOBILE USE ONLY.	\$350.00
WP-430-1	Selective cavity resonator, single section for operation in the 148-174 MHz band.	\$191.50
WP-440-1	Selective cavity resonator with female connectors 200-300 MHz.	\$204.00
WP-470-1	Selective cavity resonator, single section for operation in the 406-512 MHz band.	\$160.00
WP-678	Duplexer with cables to join CR-10 & RPT-15 or RPT-30 to common line & antenna. USED WITH FIXED AUTO RELAY.	\$746.00
MCD-70	Microphone with push to talk switch & 14' standard cord 4 pin XLR-4.	\$80.00
MCD-70B	Microphone with push to talk switch & 9' coil cord 4 pin XLR-4.	\$80.00
MCD-70C	Microphone with 3 pin XLR-3 plug & 14' cord.	\$80.00
MCD-70D	Microphone with 3 pin XLR-3 plug & 9' coil cord.	\$80.00
Racom 1300	Station identifier for use in TSL system.	\$200.00
RMH-3	Rack shelf for mounting RPT-2 transmitter.	\$55.00
RMH-3B	Rack shelf with fan for mounting RPT-15.	\$74.50
TR-2	Coaxial switching unit required in RPT-15 if used for base station or mobile two- way communications	\$35.00
TR-3	Antenna relay for RPT-30 for two-way operation.	\$35.00

# **RPU ANTENNAS**

Model	Description of Item	Price
Omnidirectional	RPU Base Antennas (SPECIFY FREQUENCY)	
SC-155AC	Base Antenna vertically polarized, 6 db gain, top mounting, includes PG-15A cable, for 152-171 MHz band with "N" male connector. Requires a 12' x 1¼" mounting pipe with standard threads (NOT INCLUDED)	\$290.00
SPD-700	Base Antenna, vertically polarized, 7 db gain, top mounting with ASPR-616 mounting clamps, for 450-470 MHz band, with "N" male connector.	\$336.00
DB-5007	Side mount kit for ASPD-700 & SC-155AC antennas	\$145.00
Omnidirectional	RPU Mobile Whip Antennas (SPECIFY FREQUENCY)	
ASPS-177	Whip Antenna, vertically polarized mobile roof top, 3 db gain, for 130-174 MHz band, with 15' RG58 & PL259 connector	\$61.75
ASP-1650	Whip antenna, vertically polarized mobile roof top, 4 db gain, for 450-470 MHz. band, with 15' RG58U & PL259 connector.	\$56.25
MM-150	Magnetic Mount Antenna, vertically polarized, 3 db gain, for 150-174 MHz band, with 12' RG58U & PL259 connector.	\$69.95
MM-450	Magnetic Mount Antenna, vertically polarized, 4 db gain, for 450-470 MHz band, with 12' RG58U & PL259 connector.	\$69.95
AV-15	Aircraft Antenna, vertically polarized, for 450-470 MHz band, with "N" female connector.	\$54.50
MA-1	Ring Antenna, horizontally polarized with 4' mast, for 150-170 MHz band with 10' RG58 & PL259 connector.	\$80.00
Omnidirectional	RPU Portable Antennas (SPECIFY FREQUENCY)	
PO-150	A % wave base loaded antenna, vertically polarized, 3 db gain for RPT-2, for 150-174 MHz band with PL259 connector.	\$39.95
PO-450	Colinear Antenna with phasing coils, vertically polarized, 4 db gain for RPT-2, for 450-470 MHz band with PL259 connector.	\$39.9
PA-1	Ring antenna with standard mic threads, horizontally polarized with 2' mast, for 150-170 MHz band with 10' RG58 & PL259 connector.	\$80.0
PAV/150	Mic Stand Mount Antenna, vertically polarized, 3 db gain, for 150-170 MHz band with 12' RG58 & PL259 connector. (MIC STAND NOT INCLUDED)	\$75.9
PAV/450	Mic Stand Mount Antenna, vertically polarized, 4 db gain, for 450-470 MHz band with 12' RG58 & PL259 connector. (MIC STAND NOT INCLUDED)	\$75.9

ID Code or Name	Description of Item	Price
Directional	RPU Yagi Antennas (SPECIFY FREQUENCY)	
DB-438	Yagi Antenna, horizontally or vertically polarized depending on mounting, 6 elements, 10 db gain, for 450-470 MHz band, recommended for TSL use, "N" female connector	*
YC-153	Yagi Antenna, horizontally or vertically polarized depending on mounting, 5 elements, 9 db gain, for 152.08-153.40 MHz band with "N" female connector.	\$135.00
YC-161	Yagi Antenna, horizontally or vertically polarized depending on mounting, 5 elements, 9 db gain, for 161.4-162.0 MHz band with "N" female connector.	\$135.00
YC-160	Yagi Antenna, horizontally or vertically polarized depending on mounting, 5 elements, 9 db gain, for 160.89-161.40 MHz band with "N" female connector.	\$135.00
YC-166	Yagi Antenna, horizontally or vertically polarized depending on mounting, 5 elements, 9 db gain, for 165.95-166.55 MHz band with "N" female connector.	\$135.00
YC-170	Yagi Antenna, horizontally or vertically polarized depending on mounting, 5 elements, 9 db gain, for 169.85-170.45 MHz band with "N" female connector.	\$135.00
YC-450	Yagi Antenna, horizontally or vertically polarized depending on mounting, 6 elements, 9 db gain, for 450.01-455.99 MHz band with "N" female connector.	\$135.00

# **RPU TRANSMISSION LINE, CABLES, CONNECTORS**

Model	Description of Item	Price
585-037-1	Automatic fixed relay station control cable to connect RPT-15 or RPT-30 transmitters to CR-10 receiver	
585-037-2	Mobile relay station control cable used to connect RPT-15 or RPT-30 transmitters to AR-10 receiver	\$40.00
585-038-2	Base station mute cable to connect mute relay in RPT-15 or RPT-30 to mute connector in CR-10 receiver	\$20.00
586-026	Base station RF cable to connect coaxial relay in RPT-15 or RPT-30 to RF input of CR-10. RPT-15 MUST have TR-2, RPT-30 MUST have TR-3	\$15.00
PG-2A	Jumper cable with 2' of RG-8 with PL-259 & UG-21 connectors	\$25.00
PG-2B	Jumper cable with 2' of RG-8 with UG-21 connectors	\$25.00
PG-12B	Jumper cable with 12' of RG-8 with UG-21 connectors for 360° rotation of Yagi antennas	\$29.00
PG-20A	Jumper cable with 20' of RG-8 with UG—21 & PL-259 connectors	\$32.50
PG-20 <u>B</u>	Jumper cable with 20' of RG-8 with UG-21 connectors	\$32.50
L44N	Andrew type "N" female connector for $\frac{1}{2}$ " foam line	*
L44W	Andrew type "N" male connector for 1/2" foam line	لا
L45N	Andrew type "N" female connector for %" foam line	4
L45W	Andrew type "N" male connector for %" foam line	1
LDF4-50	Andrew foam transmission line, 1/2", 50 ohm, jacketed	لا
LDF5-50	Andrew foam transmission line, %", 50 ohm, jacketed	×
PL-259	Type "UHF" male connector for RG-8 cable	\$4.0Ç
UG-21B/U	Type "N" male connector for RG-8 cable	\$6.00
UG-23B/U	Type "N" female connector for RG-8 cable	\$6.00
RG-8U	Foam transmission line, 50 ohm, jacketed per foot	\$0.40

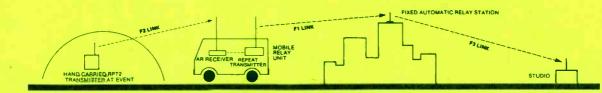
\*Call Factory For Current Price



The performance-value leader in Broadcast Equipment.Marti Electronics, Inc., P.O. Box 661, Cleburne, Texas 76033-0661(817) 645-9163Telex #794835"Marti CLBN"Fax (817) 641-3869

PACKAGE 12 -	From An Event With A Portable Transmitter To A Repo	eat Receiver \$2,677.40
	1 RPT-2/450 Transmitter	
	1 MCD-70C Microphone	
	1 AR-10/450 Receiver	
	1 700-252 Mobile Mounting Kit for AR-10	
	1 585-037-2 Control Cable	
	1 ASP-1650 Mobile Antenna	
	1 PAV-450 Portable Antenna 1 WP-470-1 Cavity	
	WF-470-T Cavity	
PACKAĠE 3 -	Retransmit From Automatic Mobile Relay To A Fixed	
	(Mobile Part)	\$2,047.35
	1 RPT-30 Transmitter	
	1 MCD-70C Microphone	
	1 700-251 Mobile Mounting Kit for RPT-30	
	1 ASP-1650 Mobile Antenna 1 YC-450 Portable Antenna	
	1 PG-20A Cable	
PACKAGE 42 -	Automatic Fixed Relay Station Equipment	\$4,061.50
	1 CR-10/450 Receiver	
	1 585-037-1 Repeater Cable	
	1 ASPD-700 Base Antenna	
	1 PG-2B Jumper Cable 1 K-1 Weatherproofing Kit	
	*TWO "N" FEMALE CONNECTIONS AND	
	1/2" TRANSMISSION LINE REQUIRED	
	1 RPT-30/450 Transmitter	
	1 700-253 Rack Mounting Kit	
	1 WP-678 Duplexer & Cables	
PACKAGE 46 -	Equipment At The Studio	\$1,568.00
	1 CR-10/450 Receiver	
	1 ASPD-700 Base Antenna	
	1 PG-2B Jumper Cable	
	1 K-1 Weatherproofing Kit	
	*TWO "N" FEMALE CONNECTIONS AND 1/2" TRANSMISSION LINE REQUIRED	

ON ALL MOBILE REPEATERS F-2 MUST BE AT LEAST 4.0 MHz FROM F-1 ON ALL FIXED REPEATERS F-3 MUST BE AT LEAST 4.0 MHz FROM F-1



MARTI The performanti Electro (817) 645-91

The performance-value leader in Broadcast Equipment. Marti Electronics, Inc., P.O. Box 661, Cleburne, Texas 76033-0661 (817) 645-9163 Telex #794835 "Marti CLBN" Fax (817) 641-3869