

# OMB

2007

## **RADIO**

**RADIO LINKS**

**FM SOLID STATE TRANSMITTERS**

**TUBE TRANSMITTERS**

**SOLID STATE FM POWER AMPLIFIERS**

**TRANSMITTER ACCESSORIES**

**FM VERTICAL POLARIZATION ANTENNAS - BROAD BAND**

**FM VERTICAL POLARIZATION DIRECTIONAL ANTENNAS.**

**FM ANTENNA PANEL**

**FM CIRCULAR POLARIZATION ANTENNAS**

**RADIO LINK ANTENNAS**

**PARABOLIC LINK ANTENNAS**

**BAND PASS FILTERS, DIPLEXERS AND TRIPLEXERS**

**FM POWER DIVIDERS**

**MOBILE RADIO TRANSMISSION UNITS**

**STEREO GENERATOR AND AUDIO PROCESSORS**

**BROADCAST AUDIO MIXERS**

**COAXIAL CONNECTORS**

**COAXIAL CABLES**

## **RADIO LINKS (STL)**

- 1 **MT 20 PLATINUM (170-570 MHz BAND)**  
RADIO LINK TRANSMITTER 20W OUTPUT POWER, FOR FREQUENCIES FROM 170 MHz TO 570 MHz SUPPLIED IN 20MHz BANDS, EXTERNALLY SYNTHESIZED, MICRO-PROCESSOR CONTROLLED, LCD METER FOR PARAMETER READINGS AS FORWARD/REFLECTED POWER, FREQUENCY SELECTION (6 DIGITS) MODULATION LEVEL, MPX LEVEL. WITH MONO, STEREO (MPX) AND 3 SCA AUDIO INPUTS.
- 1 **MT 20 PLATINUM (940-960 MHz BAND)**  
RADIO LINK TRANSMITTER 20W OUTPUT POWER, FOR FREQUENCIES FROM 940 MHz TO 960 MHz EXTERNALLY SYNTHESIZED, MICRO-PROCESSOR CONTROLLED, LCD METER FOR PARAMETER READINGS AS FORWARD/REFLECTED POWER, FREQUENCY SELECTION (6 DIGITS) MODULATION LEVEL, MPX LEVEL. WITH MONO/STEREO (MPX) AND 3 SCA AUDIO INPUTS.
- 1 **MR PLATINUM**  
RADIO LINK RECEIVER FOR FREQUENCIES FROM 175MHz TO 960MHz SUPPLIED IN 20MHz BANDS, EXTERNALLY SYNTHESIZED, LCD METER FOR PARAMETER READINGS AS FREQUENCY (6 DIGITS), RF LEVEL, SUB-CARRIER LEVEL. WITH MONO/ STEREO (MPX), AND 3 SCA AUDIO OUTPUTS AND REMOTE CONTROL.
- 1 **MT/MR 20 PLATINUM (170-570 MHZ BAND)**  
RADIO LINK OF 20W FOR FREQUENCIES FROM 170 TO 570 MHz SUPPLIED IN 20MHz SUB-BANDS EXTERNALLY SYNTHESIZED. MICROPROCESSOR CONTROLLED, LCD METERING WITH THE NEXT PARAMETERS: TRANSMITTER: FREQUENCY (6 DIGITS) FORWARD / REFLECTED POWER. MODULATION LEVEL. MPX SUB-CARRIER LEVEL, MONO/ STEREO (MPX), 3 SCA INPUTS RECEIVER WITH REMOTE CONTROL FREQUENCY (6 DIGITS). RF LEVEL. MPX SUB-CARRIER LEVEL WITH AUDIO MONITOR AND MONO/ STEREO (MPX), 3 SCA OUTPUTS
- 1 **MT/MR 20 PLATINUM (940-960 MHZ BAND)**  
RADIO LINK OF 20W FOR FREQUENCIES FROM 940 TO 960 MHz EXTERNALLY SYNTHESIZED. MICROPROCESSOR CONTROLLED, LCD METERING WITH THE NEXT PARAMETERS: TRANSMITTER: FREQUENCY (6 DIGITS) FORWARD / REFLECTED POWER. MODULATION LEVEL. MPX SUB-CARRIER LEVEL, MONO/ STEREO (MPX), 3 SCA INPUTS RECEIVER WITH REMOTE CONTROL FREQUENCY (6 DIGITS). RF LEVEL.

MPX SUB-CARRIER LEVEL WITH AUDIO MONITOR  
AND MONO/ STEREO (MPX), 3 SCA OUTPUTS

- 1     **MT 1.5 5W PLATINUM**  
EXTERNALLY SYNTHESIZED RADIO LINK TRANSMITTER  
MICROPROCESSOR CONTROLLED, SUPPLIED  
IN 10 MHZ SUB-BANDS FOR THE 1.5 TO 1.7 GHz  
BAND. OUTPUT POWER 5 W. ADJUSTABLE
  
- 1     **MR 1.5 PLATINUM**  
EXTERNALLY SYNTHESIZED RADIO LINK RECEIVER,  
3168  
IN 10 MHZ SUB-BANDS FOR THE 1.5 TO 1.7 GHz BAND.  
MONO / STEREO (MPX) AND 2 SCA AUDIO OUTPUTS.  
WITH REMOTE CONTROL
  
- 1     **MT / MR 1.5-1.6 5W PLATINUM**  
EXTERNALLY SYNTHESIZED RADIO LINK, FREQUENCY  
AGILE IN 10 MHZ SUB-BANDS FOR THE 1.5 TO 1.7 GHz  
BAND. MICRO PROCESSOR CONTROLLED. COMPRISED  
OF TRANSMITTER AND RECEIVER. MONO/ STEREO  
(MPX) AND 2 SCA AUDIO INPUTS / OUTPUTS. WITH  
REMOTE CONTROL. OUTPUT POWER 5 W.  
ADJUSTABLE
  
- 1     **AM 200 - 400**  
RADIO LINK POWER AMPLIFIER FOR BANDS FROM  
200 TO 400 MHZ. OUTPUT POWER 50 - 60 W. INPUT  
POWER 10 W. SUPPLIED IN 20 MHZ SUB BANDS
  
- 1     **MR / FM**  
EXTERNALLY SYNTHESIZED FM RECEIVER, MICRO  
PROCESSOR CONTROLLED FOR 87.5 TO 108 MHZ  
BAND. MONO/ STEREO (MPX) AND 2 SCA AUDIO  
OUTPUTS. WITH REMOTE CONTROL

## **FM SOLID STATE TRANSMITTERS**

- 1     **MRI 15 DIG**  
MOBILE FM TRANSMITTER UNIT COMPRISED OF  
AUDIO MIXER (4 CHANNELS), AND AN EXTERNALLY  
SYNTHESIZED FM TRANSMITTER WITH OUTPUT  
POWER OF 15 W. FOR THE 87,5 TO 108 MHZ BAND  
IN 10 KHZ STEPS. LCD METERING FOR FORWARD/  
REFLECTED POWER, MODULATION LEVEL, BATTERY  
CHARGE. BUILT IN 12 VDC BATTERY, 12 VDC EXTERNAL  
BATTERY AND 100-220 VAC POWER INLETS  
LOW PASS FILTER
  
- 1     **EM 20/30**  
FM TRANSMITTER FOR THE 87.5 TO 108 MHZ BAND.  
EXTERNALLY SYNTHESIZED IN 10 KHz STEPS,  
SWITCHING POWER SUPPLY FROM 100 TO 250 V

MOSFET TECHNOLOGY  
MICRO PROCESSOR CONTROLLED, LCD METER  
DISPLAY FOR FORWARD / REFLECTED POWER,  
DEVIATION LEVEL. MONO/ STEREO (MPX) AND 2 SCA  
AUDIO INPUTS. LOW PASS FILTER AND TELEMTRY  
OUTPUT. POWER OUTPUT 20/30 W. ADJUSTABLE

- 1 **EM 20/30+G**  
FM TRANSMITTER FOR THE 87.5 TO 108 MHZ BAND.  
EXTERNALLY SYNTHESIZED IN 10 KHz STEPS,  
SWITCHING POWER SUPPLY FROM 100 TO 250 V  
MOSFET TECHNOLOGY  
MICRO PROCESSOR CONTROLLED, LCD METER  
DISPLAY FOR FORWARD / REFLECTED POWER,  
DEVIATION LEVEL. MONO/ STEREO R+L CHANNEL AND 2 SCA  
AUDIO INPUTS. LOW PASS FILTER AND TELEMTRY  
OUTPUT. POWER OUTPUT 20/30 W. ADJUSTABLE  
DIGITAL STEREO GENERATOR OF 50 dB OF  
SEPARATION
- 1 **EM 25 DIG**  
FM TRANSMITTER FOR THE 87.5 TO 108 MHz BAND  
EXTERNALLY SYNTHESIZED IN 10 KHz STEPS.  
SWITCHING POWER SUPPLY FROM 90 TO 250 V  
MOSFET TECHNOLOGY  
MICRO PROCESSOR CONTROLLED, LCD METER  
DISPLAY FOR PRE-EMPHASIS, FREQUENCY,  
MODULATION LEVEL ON AUX, L, R, AND MPX,  
FORWARD / REFLECTED POWER, POWER LEVEL  
CONTROL WITH TIME SETTING, S/N RATIO BETTER  
THAN 80 dB FOLD BACK PROTECTION. TELEMTRY  
OUTPUT. POWER OUTPUT FROM 0 TO 25 W  
ADJUSTABLE. LOW PASS FILTER BUILT IN
- 1 **EM 25 DIG + G**  
FM TRANSMITTER FOR THE 87.5 TO 108 MHz BAND  
EXTERNALLY SYNTHESIZED IN 10 KHz STEPS.  
SWITCHING POWER SUPPLY FROM 90 TO 250 V  
MOSFET TECHNOLOGY  
MICRO PROCESSOR CONTROLLED, LCD METER  
DISPLAY FOR PRE-EMPHASIS, FREQUENCY,  
MODULATION LEVEL ON AUX, L, R AND MPX.  
FORWARD / REFLECTED POWER, POWER LEVEL  
CONTROL WITH TIME SETTING. S/N RATIO BETTER  
THAN 80 Db. FOLD BACK PROTECTION. TELEMTRY  
OUTPUT. POWER OUTPUT FROM 0 TO 25 W.  
ADJUSTABLE. DIGITAL STEREO GENERATOR WITH  
60 dB SEPARATION.
- 1 **EM 50**  
FM TRANSMITTER FOR THE 87.5 TO 108 MHZ BAND.  
EXTERNALLY SYNTHESIZED IN 10 KHz STEPS,  
SWITCHING POWER SUPPLY FROM 100 TO 250 V  
MOSFET TECHNOLOGY  
MICRO PROCESSOR CONTROLLED, LCD METER  
DISPLAY FOR FORWARD / REFLECTED POWER,

DEVIATION LEVEL. MONO/ STEREO (MPX) AND 2 SCA AUDIO INPUTS. LOW PASS FILTER AND TELEMETRY OUTPUT. POWER OUTPUT 50 W. ADJUSTABLE

- 1 **EM 100 DIG**  
FM TRANSMITTER FREQUENCY AGILE 87,5-108 MHZ EXTERNALLY SYNTHESIZED IN 10 KHZ STEPS. SWITCHING POWER SUPPLY FROM 90 TO 250 V MOSFET TECHNOLOGY  
MICROPROCESSOR CONTROLLED, LCD METERING DISPLAY FOR FREQUENCY, PRE-EMPHASIS, MODULATION LEVEL OF AUX, L, R, AND MPX, FORWARD/REFLECTED POWER, POWER LEVEL CONTROL WITH TIME SETTING. SNR > 80 dB FOLD BACK PROTECTION, LOW PASS FILTER AND TELEMETRY. ADJUSTABLE OUTPUT POWER 0 TO 100 W
  
- 1 **EM 100 DIG + G**  
FM TRANSMITTER FREQUENCY AGILE 87.5 TO 108 MHZ, EXTERNALLY SYNTHESIZED IN 10 KHZ STEPS SWITCHING POWER SUPPLY FROM 90 TO 250 V MOSFET TECHNOLOGY  
MICROPROCESSOR CONTROLLED, LCD METERING DISPLAY FOR FREQUENCY, PRE-EMPHASIS, MODULATION LEVEL OF AUX, L, R, AND MPX, FORWARD/REFLECTED POWER, POWER LEVEL CONTROL WITH TIME SETTING. SNR > 80 dB. FOLD BACK PROTECTION, LOW PASS FILTER AND TELEMETRY. DIGITAL STEREO GENERATOR WITH 60 dB OF SEPARATION BUILT IN. ADJUSTABLE OUTPUT POWER 0 TO 100 W
  
- 1 **EM 250 COMPACT DIG**  
FM TRANSMITTER FREQUENCY AGILE 87,5 - 108 MHZ EXTERNALLY SYNTHESIZED IN 10 KHZ STEPS. SWITCHING POWER SUPPLY FROM 90 TO 250 V MOSFET TECHNOLOGY  
MICROPROCESSOR CONTROLLED, LCD METERING DISPLAY FOR FREQUENCY, PRE-EMPHASIS, MODULATION LEVEL OF AUX, L, R, MPX. FORWARD/ REFLECTED POWER, POWER LEVEL CONTROL WITH TIME SETTING. SNR > 80 dB FOLD BACK PROTECTION LOW PASS FILTER AND TELEMETRY. ADJUSTABLE OUTPUT POWER 0 TO 250 W
  
- 1 **EM 250 COMPAC DIG + G**  
FM TRANSMITTER FREQUENCY AGILE 87,5 - 108 MHZ EXTERNALLY SYNTHESIZED IN 10 KHZ STEPS. SWITCHING POWER SUPPLY FROM 90 TO 250 V MOSFET TECHNOLOGY  
MICROPROCESSOR CONTROLLED, LCD METERING DISPLAY FOR FREQUENCY, PRE-EMPHASIS, MODULATION LEVEL OF AUX, L, R, MPX, FORWARD/ REFLECTED POWER, POWER LEVEL CONTROL WITH TIME SETTING. SNR > 80 dB FOLD BACK

PROTECTION, LOW PASS FILTER. ADJUSTABLE  
OUTPUT POWER 0 TO 250 W  
DIGITAL STEREO GENERATOR WITH 60 dB OF  
SEPARATION

- 1 **EM 250**  
FM TRANSMITTER MADE UP OF EM 20/30 EXCITER  
(MICROPROCESSOR CONTROLLED)  
AND AM 250 POWER AMPLIFIER (SOLID STATE),  
MOSFET TECHNOLOGY. SWITCHING POWER  
SUPPLY 90/250 V, LCD METERING DISPLAY FOR  
FORWARD/REFLECTED POWER, TEMPERATURE,  
POWER MODULE CURRENT, POWER SUPPLY  
VOLTAGE, AND WITH ALARMS FOR TEMPERATURE  
SWR, OVERDRIVE AND FORWARD POWER,  
OVER VOLTAGE AND OVER CURRENT  
LOW PASS FILTER AND TELEMETRY. ADJUSTABLE  
OUTPUT POWER 0 TO 250 W. WITH 19" RACK  
INCLUDED
  
- 1 **EM 250 DIG**  
FM TRANSMITTER MADE UP OF EM 25 DIG EXCITER  
(MICROPROCESSOR CONTROLLED)  
AND AM 250 POWER AMPLIFIER SOLID STATE,  
MOSFET TECHNOLOGY. SWITCHING POWER  
SUPPLY 90/250 V, LCD METERING DISPLAY FOR  
FORWARD/REFLECTED POWER, TEMPERATURE,  
POWER MODULE CURRENT, POWER SUPPLY  
VOLTAGE, AND WITH ALARMS FOR TEMPERATURE  
SWR, OVERDRIVE AND FORWARD POWER,  
OVER VOLTAGE AND OVER CURRENT  
LOW PASS FILTER AND TELEMETRY. ADJUSTABLE  
OUTPUT POWER 0 TO 250 W. WITH 19" RACK  
INCLUDED
  
- 1 **EM 500**  
FM TRANSMITTER MADE UP OF EM 20/30  
EXCITER AND AM 500 POWER AMPLIFIER SOLID  
STATE, MOSFET TECHNOLOGY. SWITCHING  
POWER SUPPLY 90/250 V, LCD METERING  
DISPLAY FOR FORWARD/REFLECTED POWER,  
TEMPERATURE  
OVERDRIVE, POWER MODULE 1 CURRENT,  
POWER MODULE 2 CURRENT, POWER SUPPLY  
1 VOLTAGE, POWER SUPPLY 2 VOLTAGE,  
OVER VOLTAGE AND OVER CURRENT  
WITH ALARMS FOR TEMPERATURE, SWR,  
OVERDRIVE AND FORWARD POWER. LOW PASS  
FILTER AND TELEMETRY. ADJUSTABLE OUTPUT  
POWER 0 TO 500 W. WITH 19" RACK  
INCLUDED.
  
- 1 **EM 500 DIG**  
FM TRANSMITTER MADE UP OF EM 25 DIG  
EXCITER AND AM 500 POWER AMPLIFIER SOLID  
STATE, MOSFET TECHNOLOGY. SWITCHING

POWER SUPPLY 90/250 V, LCD METERING DISPLAY FOR FORWARD/REFLECTED POWER, OVERDRIVE, POWER MODULE 1 CURRENT, POWER MODULE 2 CURRENT, POWER SUPPLY 1 VOLTAGE, POWER SUPPLY 2 VOLTAGE, OVER VOLTAGE AND OVER CURRENT WITH ALARMS FOR TEMPERATURE, SWR, OVERDRIVE AND FORWARD POWER. LOW PASS FILTER AND TELEMETRY. ADJUSTABLE OUTPUT POWER 0 TO 500 W. WITH 19" RACK INCLUDED.

1 **EM 1000**

FM TRANSMITTER MADE UP OF EM 20/30 EXCITER AND AM 1000 POWER AMPLIFIER SOLID STATE. MICROPROCESSOR CONTROLLED MOSFET TECHNOLOGY. SWITCHING POWER SUPPLY, LCD METERING DISPLAY FOR FORWARD/REFLECTED POWER, RF INPUT, POWER MODULE 1 CURRENT, POWER MODULE 2 CURRENT, POWER SUPPLY 1 VOLTAGE AND WITH ALARMS FOR TEMPERATURE, SWR, OVERDRIVE, FORWARD POWER AND OVER VOLTAGE AND OVER CURRENT LOW PASS FILTER AND TELEMETRY. ADJUSTABLE OUTPUT POWER 0 TO 1000 W. WITH 19" RACK INCLUDED

1 **EM 1000 DIG**

FM TRANSMITTER MADE UP OF EM 25 DIG EXCITER AND AM 1000 POWER AMPLIFIER SOLID STATE. MOSFET TECHNOLOGY. SWITCHING POWER SUPPLY, LCD METERING DISPLAY FOR FORWARD/REFLECTED POWER, OVERDRIVE, POWER MODULE 1 CURRENT, POWER MODULE 2 CURRENT, POWER SUPPLY 1 VOLTAGE, POWER SUPPLY 2 VOLTAGE AND WITH ALARMS FOR TEMPERATURE, SWR, OVERDRIVE, FORWARD POWER AND OVER CURRENT. LOW PASS FILTER AND TELEMETRY. ADJUSTABLE OUTPUT POWER 0 TO 1000 W. WITH 19" RACK INCLUDED.

1 **EM 2000**

FM TRANSMITTER MADE UP OF EM 25 DIG EXCITER AND AM 2000 POWER AMPLIFIER. SOLID STATE MOSFET TECHNOLOGY. WITH TWO INDEPENDENT POWER SUPPLY UNITS AND INTERNAL SURGE SUPPRESSOR. MICROPROCESSOR CONTROLLED. DISPLAYING ON THE LCD: FORWARD, REFLECTED, INPUT POWERS, LOSSES IN THE COMBINER, INDIVIDUAL MEASURES OF THE 8 RF MODULES DC CURRENTS, DC VOLTAGE OF THE 2 POWER SUPPLIES, 3 TEMPERATURE POINTS. TELEMETRY: DIGITAL, ANALOGUE AND BY OPEN / CLOSED CONTACTS. ALARMS FOR TEMPERATURE, SWR, OVERDRIVE, OVER CURRENT, OVER DRIVING, EXCESSIVE FORWARD POWER, POWER SUPPLY FAILURE, UNBALANCE OF POWER IN THE

COMBINER.  
AGC, FOLD-BACK (AUTOMATIC GRADUAL POWER REDUCTION IN FUNCTION OF SWR), POWER REDUCTION IN CASE OF EXCESSIVE AMBIENT TEMPERATURE.  
OUTPUT POWER 0 TO 2000 W, ABILITY OF ADJUST A NIGHTTIME AUTOMATIC POWER REDUCTION WITH EM25DIG. OUTPUT LOW PASS FILTER. WITH 19" RACK TYPE CABINET INCLUDED.

- 1 **EM 4000**  
FM TRANSMITTER MADE UP OF EM 100 DIG EXCITER + CONTROL UNIT + TWO AM 2000 POWER AMPLIFIERS. EACH AM 2000 HAS THE FOLLOWING FEATURES: SOLID STATE MOSFET TECHNOLOGY. WITH TWO INDEPENDENT POWER SUPPLY UNITS AND INTERNAL SURGE SUPPRESSOR. MICROPROCESSOR CONTROLLED. DISPLAYING ON THE LCD: FORWARD, REFLECTED, INPUT POWERS, LOSSES IN THE COMBINER, INDIVIDUAL MEASURES OF THE 8 RF MODULES, DC CURRENTS, DC VOLTAGE OF THE 2 POWER SUPPLIES, 3 TEMPERATURE POINTS. TELEMETRY: DIGITAL, ANALOGUE AND BY OPEN / CLOSED CONTACTS. ALARMS FOR TEMPERATURE, SWR, OVERDRIVE, OVER CURRENT, OVER DRIVING, EXCESSIVE FORWARD POWER, POWER SUPPLY FAILURE, UNBALANCE OF POWER IN THE COMBINER.  
AGC, FOLD-BACK (AUTOMATIC GRADUAL POWER REDUCTION IN FUNCTION OF SWR), POWER REDUCTION IN CASE OF EXCESSIVE AMBIENT TEMPERATURE.  
OUTPUT POWER 0 TO 4000 W, ABILITY OF ADJUST A NIGHTTIME AUTOMATIC POWER REDUCTION WITH EM25DIG. OUTPUT LOW PASS FILTER. WITH 19" RACK TYPE CABINET INCLUDED.

- 1 **EM 5000**  
FM TRANSMITTER MADE UP OF EM 100 DIG EXCITER + CONTROL UNIT + THREE AM 2000 POWER AMPLIFIERS. EACH AM 2000 HAS THE FOLLOWING FEATURES: SOLID STATE MOSFET TECHNOLOGY. WITH TWO INDEPENDENT POWER SUPPLY UNITS AND INTERNAL SURGE SUPPRESSOR. MICROPROCESSOR CONTROLLED. DISPLAYING ON THE LCD: FORWARD, REFLECTED, INPUT POWERS, LOSSES IN THE COMBINER, INDIVIDUAL MEASURES OF THE 8 RF MODULES, DC CURRENTS, DC VOLTAGE OF THE 2 POWER SUPPLIES, 3 TEMPERATURE POINTS. TELEMETRY: DIGITAL, ANALOGUE AND BY OPEN / CLOSED CONTACTS. ALARMS FOR TEMPERATURE, SWR, OVERDRIVE, OVER CURRENT, OVER DRIVING, EXCESSIVE FORWARD POWER, POWER SUPPLY FAILURE, UNBALANCE OF POWER IN THE COMBINER. AGC, FOLD-BACK (AUTOMATIC GRADUAL POWER REDUCTION DEPENDING ON SWR) POWER REDUCTION IN CASE OF EXCESSIVE AMBIENT TEMPERATURE. MAXIMUM OUTPUT POWER: 6KW. NOMINAL POWER: 5KW. ABILITY OF ADJUST A NIGHT TIMEAUTOMATIC POWER REDUCTION WITH EM25DIG. OUTPUT LOW PASS FILTER. WITH 19" RACK TYPE CABINET INCLUDED.



- 1 **EM 10000**  
FM TRANSMITTER MADE UP OF EM 250 DIG EXCITER +  
3 CONTROL UNITS + 6 AM 2000 POWER AMPLIFIERS. EACH AM2000  
HAS THE FOLLOWING FEATURES: SOLID STATE MOSFET TECHNOLOGY.  
WITH TWO INDEPENDENT POWER SUPPLY  
UNITS AND INTERNAL SURGE SUPPRESSOR.  
MICROPROCESSOR CONTROLLED. DISPLAYING ON THE  
LCD: FORWARD, REFLECTED, INPUT POWERS, LOSSES  
IN THE COMBINER, INDIVIDUAL MEASURES OF THE 8 RF  
MODULES, DC CURRENTS, DC VOLTAGE OF THE 2 POWER  
SUPPLIES, 3 TEMPERATURE POINTS.  
TELEMETRY: DIGITAL, ANALOGUE AND BY OPEN / CLOSED  
CONTACTS. ALARMS FOR TEMPERATURE, SWR, OVERDRIVE,  
OVER CURRENT, OVER DRIVING, EXCESSIVE FORWARD POWER,  
POWER SUPPLY FAILURE, UNBALANCE OF POWER IN THE  
COMBINER.  
AGC, FOLD-BACK (AUTOMATIC GRADUAL POWER REDUCTION  
IN FUNCTION OF SWR), POWER REDUCTION IN CASE OF  
EXCESSIVE AMBIENT TEMPERATURE.  
OUTPUT POWER 0 TO 6000 W, ABILITY OF ADJUST A NIGHTTIME  
AUTOMATIC POWER REDUCTION WITH EM25DIG. OUTPUT LOW  
PASS FILTER. WITH 19" RACK TYPE CABINET  
INCLUDED.

## **TUBE TRANSMITTERS**

- 1 **EM 5000 V**  
FM TRANSMITTER FOR THE 87.5 TO 108 MHZ BAND  
COMPRISED OF EM 250 DIG EXCITER AND  
AM 5000 V POWER AMPLIFIER WITH 3CX3000A7  
TUBE. PROTECTIONS AGAINST SWR, TEMPERATURE,  
OVER CONSUMPTION. VISUALIZATION OF FAILURES.  
SERVOMOTORIZED CAVITY TUNING. LOW PASS  
FILTER BUILT IN. MAXIMUM POWER OUTPUT  
5000 W

Note: The EM 5000 V transmitter can be supplied with single phase power supply, with additional charge of 620.00 €

- 1 **EM 7500 V**  
FM TRANSMITTER FOR THE 87.5 TO 108 MHZ BAND  
COMPRISED OF EM 250 DIG EXCITER AND  
AM 7500 V POWER AMPLIFIER WITH YU 148 TUBE,  
PROTECTIONS AGAINST SWR, TEMPERATURE,  
OVER CONSUMPTION. VISUALIZATION OF FAILURES.  
SERVOMOTORIZED CAVITY TUNING. LOW PASS  
FILTER BUILT IN. POWER OUTPUT 7500 W

- 1 **EM 10000 V**  
FM TRANSMITTER FOR THE 87,5 TO 108 MHz BAND,  
COMPRISED OF EM 500 EXCITER  
AND AM 10000 V POWER AMPLIFIER

WITH YU 148 TUBE. PROTECTIONS AGAINST SWR, TEMPERATURE, OVER CONSUMPTION VISUALIZATION OF FAILURES. SERVOMOTORIZED CAVITY TUNING. LOW PASS FILTER BUILT IN. MAXIMUM POWER OUTPUT 10000 W

- 1 **EM 10000 VR**  
FM TRANSMITTER FOR THE 87,5 TO 108 MHZ BAND COMPRISED OF EM 500 EXCITER AND AM 10000 VR POWER AMPLIFIER WITH 3CX15000A7 TUBE. PROTECTIONS AGAINST SWR, TEMPERATURE, OVER CONSUMPTION VISUALIZATION OF FAILURES. SERVOMOTORIZED CAVITY TUNING. LOW PASS FILTER BUILT IN. POWER OUTPUT 11000 W
  
- 1 **EM 15000 V**  
FM TRANSMITTER FOR THE 87,5 TO 108 MHZ BAND COMPRISED OF EM 500 EXCITER AND AM 15000 V POWER AMPLIFIER WITH 3CX15000A7 TUBE. PROTECTIONS AGAINST SWR, TEMPERATURE OVER CONSUMPTION. VISUALIZATION OF FAILURES. SERVOMOTORIZED CAVITY TUNING. LOW PASS FILTER BUILT IN. POWER OUTPUT 15000 W.

## **SOLID STATE FM POWER AMPLIFIERS**

- 1 **AM 250**  
FM 87,5-108 MHZ POWER AMPLIFIER, SOLID STATE, MICROPROCESSOR CONTROLLED. CYCLIC PROTECTIONS AGAINST OVER FORWARD POWER, SWR, OVER CURRENT, OVER DC VOLTAGE IN MODULE, OVERDRIVE AND TEMPERATURE SWITCHING POWER SUPPLY 90/260 V, LOW PASS FILTER AND DIGITAL TELEMTRY. POWER INPUT < 10 W. POWER OUTPUT 250 W
  
- 1 **AM 500**  
FM 87,5 -108 MHZ POWER AMPLIFIER, SOLID STATE, MICROPROCESSOR CONTROLLED. CYCLIC PROTECTIONS AGAINST OVER FORWARD POWER, SWR, OVER CURRENT POWER MODULE 1, OVER CURRENT POWER MODULE 2, OVER DC VOLTAGE IN MODULE 1, OVER DC VOLTAGE IN MODULE 2 OVERDRIVE, AND TEMPERATURE. SWITCHING POWER SUPPLY 90/260 V, LOW PASS FILTER AND DIGITAL TELEMTRY. POWER INPUT < 10 W, POWER OUTPUT 500 W
  
- 1 **AM 1000**  
FM POWER AMPLIFIER FOR 87,5 TO 108 MHZ BAND MOSFET TECHNOLOGY. SWITCHING POWER SUPPLY LCD METER DISPLAY FOR FORWARD/REFLECTED

POWER, OVERDRIVE, MODULE 1 CURRENT, MODULE 2 CURRENT, POWER SUPPLY UNIT 1 VOLTAGE. POWER SUPPLY UNIT 2 VOLTAGE. ALARMS FOR TEMPERATURE, SWR, AND OVERDRIVE. LESS THAN 15 W INPUT FOR 1000 W POWER OUTPUT. LOW PASS FILTER BUILT IN. DIGITAL TELEMTRY OUTPUT

- 1     **AM 2000**  
FM POWER AMPLIFIER (87,5 - 108MHz). SOLID STATE MOSFET TECHNOLOGY. WITH TWO INDEPENDENT POWER SUPPLY UNITS AND INTERNAL SURGE SUPPRESSOR. MICROPROCESSOR CONTROLLED. DISPLAYING ON THE LCD: FORWARD, REFLECTED, INPUT POWERS, LOSSES IN THE COMBINER, INDIVIDUAL MEASURES OF THE 8 RF MODULES DC CURRENTS, DC VOLTAGE OF THE 2 POWER SUPPLIES, 3 TEMPERATURE POINTS. TELEMTRY: DIGITAL, ANALOGUE AND BY OPEN / CLOSED CONTACTS. ALARMS FOR TEMPERATURE, SWR, OVERDRIVE, OVER CURRENT, OVER DRIVING, EXCESSIVE FORWARD POWER, POWER SUPPLY FAILURE, UNBALANCE OF POWER IN THE COMBINER. AGC, FOLD-BACK (AUTOMATIC GRADUAL POWER REDUCTION IN FUNCTION OF SWR), POWER REDUCTION IN CASE OF EXCESSIVE AMBIENT TEMPERATURE. OUTPUT POWER 0 TO 2000 W, ABILITY OF ADJUST A NIGHTTIME AUTOMATIC POWER REDUCTION WITH EM25DIG. OUTPUT LOW PASS FILTER.

**NOTE:**     *The solid state FM amplifiers AM 4000, AM 5000 and AM 10000 have been deleted from the price list. However, if a customer request one of them, a customized quotation will be done.*

## **TRANSMITTER ACCESSORIES**

- 1     **FEL - 1**  
STAINLESS STEEL AIR DUCT, 13 CM. IN DIAMETER, AND 48 CM LONG
- 1     **SINGLE PHASE TRANSIENT-ARRESTOR SYSTEM**  
(TOTAL PROTECTION) WITH GAS UNLOADERS AND LOCK AND UNLOCK SYSTEM OF THE MAINS BY BREAKER CONTROLLED BY EXTERNALLY PROGRAMABLE MICROPROCESSOR
- 1     **THREE PHASE TRANSIENT-ARRESTOR SYSTEM**  
(TOTAL PROTECTION) WITH GAS UNLOADERS AND LOCK AND UNLOCK SYSTEM OF THE MAINS BY BREAKER CONTROLLED BY EXTERNALLY PROGRAMABLE MICROPROCESSOR

1     **AUTOMATIC SWITCHING SYSTEM**  
FULLY PROGRAMABLE BY THE USER.  
THE EQUIPMENT COULD HANDLE TWO RF INPUT  
SIGNALS TO AN ANTENNA OR TO A DUMMY LOAD.  
SIMULTANEOUSLY, THIS EQUIPMENT SWITCH  
TWO AUDIO INPUTS, TWO VIDEO INPUTS OR  
TWO MPX SIGNALS IF FM MODE IS REQUIRED  
WITH 4 PORTS RELAY UP TO 200 W VHF

1     **AUTOMATIC SWITCHING SYSTEM**  
FULLY PROGRAMABLE BY THE USER.  
THE EQUIPMENT COULD HANDLE TWO RF INPUT  
SIGNALS TO AN ANTENNA OR TO A DUMMY LOAD.  
SIMULTANEOUSLY, THIS EQUIPMENT SWITCH  
TWO AUDIO INPUTS, TWO VIDEO INPUTS OR  
TWO MPX SIGNALS IF FM MODE IS REQUIRED  
WITH 4 PORTS RELAY UP TO 1KW UHF

## **FM VERTICAL POLARIZATION ANTENNAS** **BROAD BAND**

1     **LB-1**  
VERTICAL POLARIZATION BROAD BAND ANTENNA.  
FOR FREQUENCIES FROM 87,5 TO 108MHz.  
MADE IN TREATD ALUMINIUM.  
MAXIMUM INPUT POWER 800W.  
N INPUT CONNECTOR.

1     **LB-2**  
ANTENNA SYSTEM FOR 1,2KW. MADE IN  
TREATED ALUMINIUM. OPERATING FREQUENCY  
FROM 87,5 TO 108MHz BROAD BAND. VERTICAL  
POLARIZATION. COMPRISED OF TWO ANTENNA BAYS,  
TWO JUMPERS 1/2" HELIAX CABLE WITH  
N CONNECTORS AND 1 POWER DIVIDER 7/16" INPUT,  
TWO N OUTPUTS.

1     **LB-4**  
ANTENNA SYSTEM FOR 1,2KW. MADE IN  
TREATED ALUMINIUM. OPERATING FREQUENCY  
FROM 87,5 TO 108MHz BROAD BAND. VERTICAL  
POLARIZATION. COMPRISED OF FOUR ANTENNA BAYS,  
FOUR JUMPERS 1/2" HELIAX CABLE WITH  
N CONNECTORS AND 1 POWER DIVIDER 7/16" INPUT,  
FOUR N OUTPUTS.

1     **VER TB**  
FM VERTICALLY POLARIZED BROAD BAND ANTENNA,  
FOR FREQUENCIES FROM 87.5 TO 108 MHZ. MADE  
OF STAINLESS STEEL. WITH OPTIMIZING STUB.  
EIA 7/8" FLANGE INPUT CONNECTOR. MAXIMUM INPUT

POWER HANDLING OF 4 KW

- 1 **VER TB 2 V**  
FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER OF 4 KW, BROAD BAND FOR FREQUENCIES FROM 87.5 TO 108 MHZ. MADE OF STAINLESS STEEL WITH OPTIMIZING STUB VERTICAL POLARIZATION COMPRISED OF 2 ANTENNA BAYS, 2 JUMPERS 1/2" HELIAX CABLES 1 POWER DIVIDER EIA 7/8" INPUT, 2 EIA 7/8" OUTPUTS
  
- 1 **VER TB 2V - R**  
FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER OF 8 KW. BROAD BAND FOR FREQUENCIES FROM 87,5 TO 108 MHZ. VERTICAL POLARIZATION, MADE OF STAINLESS STEEL WITH OPTIMIZING STUB COMPRISED OF 2 ANTENNA BAYS, 2 JUMPER 7/8" HELIAX CABLES, 1 POWER DIVIDER EIA 1-5/8" INPUT 2 EIA 7/8" OUTPUTS
  
- 1 **VER TB 4 V**  
FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER OF 8 KW. BROAD BAND FOR FREQUENCIES FROM 87,5 TO 108 MHZ. VERTICAL POLARIZATION MADE OF STAINLESS STEEL WITH OPTIMIZING STUB COMPRISED OF 4 ANTENNA BAYS, 4 JUMPER 1/2" HELIAX CABLES, 1 POWER DIVIDER EIA 1-5/8" INPUT, 4 EIA 7/8" OUTPUTS
  
- 1 **VER TB 4 VR**  
FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER OF 14 KW. BROAD BAND FOR FREQUENCIES FROM 87,5 TO 108 MHZ. VERTICAL POLARIZATION MADE OF STAINLESS STEEL WITH OPTIMIZING STUB COMPRISED OF 4 ANTENNA BAYS, 4 JUMPER 7/8" HELIAX CABLES, 1 POWER DIVIDER EIA 1 5/8" INPUT, 4 EIA 7/8" OUTPUTS
  
- 1 **VER TB 6 V**  
FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER OF 8 KW. BROAD BAND FOR FREQUENCIES FROM 87,5 TO 108 MHZ. VERTICAL POLARIZATION, MADE OF STAINLESS STEEL WITH OPTIMIZING STUB COMPRISED OF 6 ANTENNA BAYS, 6 JUMPER 1/2" HELIAX CABLES 1 POWER DIVIDER EIA 1-5/8", 6 EIA 7/8" OUTPUTS
  
- 1 **VER TB 6 VR**  
FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER OF 15/20 KW. BROAD BAND FOR FREQUENCIES FROM 87,5 TO 108 MHZ. VERTICAL POLARIZATION, MADE OF STAINLESS STEEL WITH OPTIMIZING STUB

COMPRISED OF  
6 ANTENNA BAYS, 6 JUMPER 7/8" HELIAX CABLES  
1 POWER DIVIDER EIA 1-5/8" OR EIA 3-1/8"  
6 EIA 7/8" OUTPUTS

**FM VERTICAL POLARIZATION DIRECTIONAL ANTENNAS**  
**BROAD BAND.**

- 1     **YAV 3 DIR**  
FM VERTICAL POLARIZATION 3 ELEMENT DIRECTIONAL ANTENNA, BROAD BAND, FOR FREQUENCIES FROM 87.5 TO 108 MHZ., WITH OPTIMIZING LINE. INPUT TYPE CONNECTOR EIA 7/8" FLANGE. MAXIMUM INPUT POWER OF 4 KW. MADE IN STAINLESS STEEL
  
- 1     **YAV 3 DIR 2 V**  
FM DIRECTIONAL 3-ELEMENT ANTENNA SYSTEM MADE IN STAINLESS STEEL FOR MAXIMUM INPUT POWER OF 4 KW. BROAD BAND FOR FREQUENCIES FROM 87.5 TO 108 MHZ. VERTICAL POLARIZATION. COMPRISED OF 2 ANTENNA BAYS, 2 JUMPER 1/2" CABLES, 1 POWER DIVIDER EIA 7/8" INPUT, 2 EIA 7/8" OUTPUTS
  
- 1     **YAV 3 DIR 4 V**  
FM DIRECTIONAL 3-ELEMENT ANTENNA SYSTEM MADE IN STAINLESS STEEL FOR MAXIMUM INPUT POWER OF 8 KW., BROAD BAND FOR FREQUENCIES FROM 87.5 TO 108 MHZ. VERTICAL POLARIZATION. COMPRISED OF 4 ANTENNA BAYS, 4 JUMPER 1/2" CABLES, 1 POWER DIVIDER EIA 1-5/8" INPUT, 4 EIA 7/8" OUTPUTS
  
- 1     **YAV 3 DIR 4 V-R**  
FM DIRECTIONAL 3-ELEMENT ANTENNA SYSTEM MADE IN STAINLESS STEEL FOR MAXIMUM INPUT POWER OF 14 KW. BROAD BAND FOR FREQUENCIES FROM 87.5 TO 108 MHZ. VERTICAL POLARIZATION. COMPRISED OF 4 ANTENNA BAYS, 4 JUMPER 7/8" CABLES, 1 POWER DIVIDER EIA 1-5/8" OR EIA 3-1/8" INPUT, 4 EIA 7/8" OUTPUTS
  
- 1     **YAV 3 DIR 6 V**  
FM DIRECTIONAL 3-ELEMENT ANTENNA SYSTEM MADE IN STAINLESS STEEL FOR MAXIMUM INPUT POWER OF 8 KW. BROAD BAND FOR FREQUENCIES FORM 87.5 TO 108 MHZ. VERTICAL POLARIZATION. COMPRISED OF 6 ANTENNA BAYS, 6 JUMPER 1/2" CABLES, 1 POWER DIVIDER EIA 1 5/8" INPUT, 6 EIA 7/8" OUTPUTS
  
- 1     **YAV 3 DIR 6 V-R**  
FM DIRECTIONAL 3-ELEMENT ANTENNA SYSTEM MADE IN STAINLESS STEEL FOR

MAXIMUM INPUT POWER OF 14 KW. BROAD BAND FOR FREQUENCIES FROM 87.5 TO 108 MHZ. VERTICAL POLARIZATION. COMPRISED OF 6 ANTENNA BAYS, 6 JUMPER 7/8" CABLES, 1 POWER DIVIDER EIA 1-5/8" OR EIA 3-1/8" INPUT, 6 EIA 7/8" OUTPUTS

## **FM ANTENNA PANEL.**

- 1 **FM PANEL BAND II**  
FM ANTENNA PANEL FOR FREQUENCIES FROM 87,5 TO 108 MHZ., BROAD BAND. VERTICAL POLARIZATION MADE WITH A VERTICAL STAINLESS STEEL DIPOLE AND GALVANIZED STEEL REFLECTOR. EIA 7/8" FLANGE INPUT TYPE CONNECTOR. MAXIMUM INPUT POWER OF 4 KW.

## **FM CIRCULAR POLARIZATION ANTENNAS**

- 1 **MP 1**  
FM CIRCULARLY POLARIZED STAINLESS STEEL ANTENNA. TUNABLE IN FREQUENCIES FROM 87,5 TO 108 MHZ. N TYPE INPUT CONNECTOR, CENTER FED. MAXIMUM INPUT POWER OF 600 W
- 1 **MP 2**  
FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER OF 800 W. TUNABLE IN FREQUENCIES FROM 87,5 TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED OF 2 ANTENNA BAYS, 2 JUMPER 1/2" HELIAX CABLES 1 POWER DIVIDER WITH N TYPE INPUT, 2 N TYPE OUTPUTS
- 1 **MP 2-R**  
FM ANTENNA SYSTEM MADE OF STAINLESS STEEL, TUNABLE IN FREQUENCIES FROM 87,5 TO 108 MHZ, CIRCULAR POLARIZATION, FOR MAXIMUM INPUT POWER OF 1200 W, COMPRISED OF 2 ANTENNA BAYS, 2 JUMPER 1/2" CABLES AND POWER DIVIDER WITH EIA 7/8" FLANGE INPUT CONNECTOR AND 2 N TYPE OUTPUTS
- 1 **MP 3**  
FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER OF 800 W. TUNABLE IN FREQUENCIES FROM 87,5 TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED OF 3 ANTENNA BAYS, 3 JUMPER 1/2" HELIAX CABLES 1 POWER DIVIDER WITH N TYPE INPUT, 3 N TYPE OUTPUTS

- 1     **MP 3 - R**  
 FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER OF 1800 W. TUNABLE IN FREQUENCIES FROM 87,5 TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED OF 3 ANTENNA BAYS, 3 JUMPER 1/2" HELIAX CABLES 1 POWER DIVIDER WITH EIA 7/8" INPUT, 3 N TYPE OUTPUTS
- 1     **MP 4**  
 FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER OF 800 W. TUNABLE IN FREQUENCIES FROM 87,5 TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED OF 4 ANTENNA BAYS, 4 JUMPER 1/2" HELIAX CABLES, 1 POWER DIVIDER WITH N TYPE INPUT, 4 N OUTPUTS
- 1     **MP 4-S**  
 FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER OF 1500 W. TUNABLE IN FREQUENCIES FROM 87,5 TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED OF 4 ANTENNA BAYS, 4 JUMPER 1/2" HELIAX CABLES, 1 POWER DIVIDER WITH 7/16" TYPE INPUT, 4 N OUTPUTS
- 1     **MP 4-R**  
 FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER OF 2.4 KW. TUNABLE IN FREQUENCIES FROM 87,5 TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED OF 4 ANTENNA BAYS, 4 JUMPER 1/2" HELIAX CABLES 1 POWER DIVIDER WITH EIA 7/8" INPUT, 4 N TYPE OUTPUTS
- 1     **MP 5-R**  
 FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER OF 3 KW. TUNABLE IN FREQUENCIES FROM 87,5 TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED OF 5 ANTENNA BAYS, 5 JUMPER 1/2" HELIAX CABLES, 1 POWER DIVIDER WITH EIA 7/8" INPUT, 5 N TYPE OUTPUTS
- 1     **MP 6-R**  
 FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER OF 3 KW. TUNABLE IN FREQUENCIES FROM 87,5 TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED OF 6 ANTENNA BAYS, 6 JUMPER 1/2" HELIAX CABLES 1 POWER DIVIDER WITH EIA 7/8" INPUT, 6 N TYPE OUTPUTS
- 1     **MP 8-R**  
 FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER OF 4,8 KW. TUNABLE IN FREQUENCIES FROM 87,5 TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED OF 8 ANTENNA BAYS, 8 JUMPER 1/2" HELIAX CABLES 2 POWER DIVIDERS WITH EIA 7/8" INPUT, 4 N TYPE OUTPUTS, AND MAIN POWER DIVIDER EIA 1 5/8", 2 EIA 7/8" OUTPUTS WITH 2 FEEDER 7/8" CABLES



- 1     **GP 1**  
FM CIRCULARLY POLARIZED STAINLESS STEEL ANTENNA. TUNABLE IN FREQUENCIES FROM 87,5 TO 108 MHZ. EIA 7/8" FLANGE INPUT CONNECTOR, CENTER FED, MAXIMUM INPUT POWER OF 2000 W
- 1     **GP 2**  
FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER OF 4 KW. TUNABLE IN FREQUENCIES FROM 87,5 TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED OF 2 ANTENNA BAYS, 2 JUMPER 1/2" CABLES, 1 POWER DIVIDER WITH EIA 7/8" INPUT, 2 EIA 7/8" OUTPUTS
- 1     **GP 3**  
FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER OF 4 KW. TUNABLE IN FREQUENCIES FROM 87,5 TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED OF 3 ANTENNA BAYS, 3 JUMPER 1/2" CABLES, 1 POWER DIVIDER WITH EIA 7/8" INPUT, 3 EIA 7/16" OUTPUTS
- 1     **GP 4**  
FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER OF 4 KW. TUNABLE IN FREQUENCIES FROM 87,5 TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED OF 4 ANTENNA BAYS, 4 JUMPER 1/2" CABLES, 1 POWER DIVIDER WITH EIA 7/8" INPUT, 4 DIN 7/16" OUTPUTS
- 1     **GP 4-R**  
FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER OF 8 KW. TUNABLE IN FREQUENCIES FROM 87,5 TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED OF 4 ANTENNA BAYS, 4 JUMPER 1/2" CABLES, 1 POWER DIVIDER WITH EIA 1-5/8" INPUT, 4 EIA 7/8" OUTPUTS
- 1     **GP 6**  
FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER OF 8 KW. TUNABLE IN FREQUENCIES FROM 87,5 TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED OF 6 ANTENNA BAYS, 6 JUMPER 1/2" CABLES, 1 POWER DIVIDER WITH EIA 1-5/8" INPUT, 6 EIA 7/8" OUTPUTS
- 1     **SGP**

FM CIRCULAR POLARIZED STAINLESS STEEL ANTENNA  
TUNABLE IN FREQUENCIES FROM 87,5 TO 108 MHZ  
EIA 7/8" FLANGE INPUT CONNECTOR, CENTER FED.  
MAXIMUM INPUT POWER OF 4000 W

- 1 **SGP 2**  
FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER  
OF 5 KW. TUNABLE IN FREQUENCIES FROM 87,5  
TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED  
OF 2 ANTENNA BAYS, 2 JUMPER 1/2" CABLES, 1  
POWER DIVIDER WITH EIA 1-5/8" INPUT, 2 EIA 7/8"  
OUTPUTS
  
- 1 **SGP 2-R**  
FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER  
OF 8 KW. TUNABLE IN FREQUENCIES FROM 87,5  
TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED  
OF 2 ANTENNA BAYS, 2 JUMPER 7/8" CABLES, 1  
POWER DIVIDER WITH EIA 1-5/8" INPUT, 2 EIA 7/8"  
OUTPUTS
  
- 1 **SGP 4**  
FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER  
OF 8 KW. TUNABLE IN FREQUENCIES FROM 87,5  
TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED  
OF 4 ANTENNA BAYS, 4 JUMPER 1/2" CABLES, 1  
POWER DIVIDER WITH EIA 1 5/8" OR EIA 3-1/8" INPUT,  
4 EIA 7/8" OUTPUTS
  
- 1 **SGP 4-R**  
FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER  
OF 14 KW. TUNABLE IN FREQUENCIES FROM 87,5  
TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED  
OF 4 ANTENNA BAYS, 4 JUMPER 7/8" CABLES, 1  
POWER DIVIDER WITH EIA 1-5/8" INPUT, 4 EIA 7/8"  
OUTPUTS
  
- 1 **SGP 6**  
FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER  
OF 8 KW. TUNABLE IN FREQUENCIES FROM 87,5  
TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED  
OF 6 ANTENNA BAYS, 6 JUMPER 1/2" CABLES, 1  
POWER DIVIDER WITH EIA 1-5/8" INPUT, 6 EIA 7/8"  
OUTPUTS
  
- 1 **SGP 6-R**  
FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER  
OF 14/20 KW. TUNABLE IN FREQUENCIES FROM 87,5  
TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED  
OF 6 ANTENNA BAYS, 6 JUMPER 7/8" CABLES, 1  
POWER DIVIDER WITH EIA 1-5/8" INPUT, 6 EIA 7/8"  
OUTPUTS
  
- 1 **SGP 8**  
FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER  
OF 14 KW. TUNABLE IN FREQUENCIES FROM 87,5

TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED OF 2 SGP-4 ANTENNAS, 1 POWER DIVIDER WITH EIA 1-5/8" OR EIA 3-1/8" INPUT, 2 EIA 1-5/8" OUTPUTS AND 2 FEEDER 1-5/8" CABLES

- 1 **SGP 8-R**  
FM ANTENNA SYSTEM FOR MAXIMUM INPUT POWER OF 20 KW. TUNABLE IN FREQUENCIES FROM 87,5 TO 108 MHZ. CIRCULAR POLARIZATION. COMPRISED OF 2 SGP-4R ANTENNA SYSTEMS, 1 POWER DIVIDER WITH EIA 3 1/8" INPUT, 2 EIA 1 5/8" OUTPUTS AND 2 FEEDER 1 5/8" CABLES

## **RADIO LINK ANTENNAS.**

- 1 **ANT. TX/RX**  
YAGUI TYPE ANTENNA WITH 10 TO 14 dB GAIN, IN BASE TO FREQUENCY. ALUMINUM MADE, FOR FREQUENCIES FROM 175 TO 960 MHz, AVAILABLE IN 20-30 MHZ. BANDS
- 1 **ANT RR**  
YAGUI TYPE ANTENNA WITH 14 dB GAIN. STAINLESS STEEL MADE. FOR FREQUENCIES FROM 840 MHZ TO 960 MHZ. WITH FIBERGLASS RADOME
- 1 **ANT TX/RX 1,5 - 1,6**  
YAGUI TYPE ANTENNA, FOR 1,5 - 1,6 GHz, 15 dB GAIN WITH RADOME FOR HIGH MOUNTAINS
- 1 **ANT RX - MOV**  
OMNI-DIRECTIONAL ANTENNA, 3 dB GAIN, FOR FREQUENCIES FROM 175 TO 960 MHz., AVAILABLE IN 20-30 MHZ BANDS
- 1 **ANT MAG**  
OMNI-DIRECTIONAL 1/4 WAVE ANTENNA, FOR FREQUENCIES FROM 175 TO 960 MHz., AVAILABLE IN 6 MHZ BANDS. WITH MAGNETIC BASE.
- 1 **MULTI -FM**  
VERTICAL POLARIZATION ANTENNA WITH GROUND PLANE, TUNABLE WITHOUT INSTRUMENTS FROM 87.5 TO 108 MHz., POWER RATED FOR MAXIMUM 300 W WITH 2.5 dB GAIN, AND INPUT CONNECTOR N FEMALE TYPE

## **PARABOLIC LINK ANTENNAS**

- 1     **PR 120**  
PARABOLIC TYPE ANTENNA, 1,2 METERS IN DIAMETER  
COMES WITH VERTICAL / HORIZONTAL ADJUSTING  
SYSTEM AND FEED
- 1     **PR 150**  
PARABOLIC TYPE ANTENNA, 1.5 METERS IN DIAMETER  
COMES WITH VERTICAL / HORIZONTAL ADJUSTING  
SYSTEM AND FEED

## **BAND PASS FILTERS, DIPLEXERS AND TRIPLEXERS**

- 1     **BAND PASS FILTER FOR 87,5 TO 108 MHZ**  
SILVER PLATED INTERIOR, 1.5 KW. POWER RATED
- 1     **BAND PASS FILTER FOR 87,5 TO 108 MHZ**  
SILVER PLATED INTERIOR, COOLING SYSTEM ADDED  
3 KW. POWER RATED
- 1     **STAR POINT OF 2 BAYS**
- 1     **STAR POINT OF 3 BAYS**

## **POWER DIVIDERS**

- 1     **DIV. 0,8 - 2**  
FM POWER DIVIDER FOR 87,5 TO 108 MHZ. BAND.  
POWER HANDLING OF 800 W. N TYPE INPUT  
CONNECTOR, 2 N TYPE OUTPUTS
- 1     **DIV 0,8 - 3**  
FM POWER DIVIDER FOR 87,5 TO 97,5 MHZ BAND  
OR FOR 97,5 TO 108 MHZ BAND  
POWER HANDLING OF 800 W. N TYPE INPUT  
CONNECOTR, 3 N TYPE OUTPUTS
- 1     **DIV 0,8 - 4**  
FM POWER DIVIDER FOR 87,5 TO 108 MHZ BAND  
POWER HANDLING OF 800 W. N TYPE INPUT  
CONNECTOR, 4 N TYPE OUTPUTS
- 1     **DIV 1,5 - 4**  
FM POWER DIVIDER FOR 87,5 TO 108 MHZ BAND  
POWER HANDLING OF 1500 W. 7/16" TYPE INPUT  
CONNECTOR, 4 N TYPE OUTPUTS
- 1     **DIV 1,8 - 3**  
FM POWER DIVIDER FOR 87,5 TO 108 MHZ BAND  
POWER HANDLING OF 1800 W. 7/8" TYPE INPUT  
CONNECTOR, 3 N TYPE OUTPUTS

- 1     **DIV 3 -2**  
FM POWER DIVIDER FOR 87,5 TO 108 MHZ BAND.  
POWER HANDLING OF 3 KW. EIA 7/8" INPUT  
CONNECTOR, 2 DIN 7/16" OUTPUTS
  
- 1     **DIV 3 - 3**  
FM POWER DIVIDER FOR 87,5 TO 108 MHZ BAND.  
POWER HANDLING OF 3 KW. EIA 7/8" INPUT  
CONNECTOR, 3 N OR 7/16" OUTPUTS
  
- 1     **DIV 3 - 4**  
FM POWER DIVIDER FOR 87,5 TO 108 MHZ. BAND  
POWER HANDLING OF 3 KW. EIA 7/8" INPUT  
CONNECTOR, 4 N TYPE OUTPUTS
  
- 1     **DIV 3 - 6**  
FM POWER DIVIDER FOR 87,5 TO 108 MHZ. BAND  
POWER HANDLING OF 3 KW. EIA 7/8" INPUT  
CONNECTOR, 6 N TYPE OUTPUTS
  
- 1     **DIV 4 - 2**  
FM POWER DIVIDER FOR 87,5 TO 108 MHZ BAND  
POWER HANDLING OF 4 KW. EIA 7/8" INPUT  
CONNECTOR, 2 EIA 7/8" OUTPUTS
  
- 1     **DIV 4 - 4**  
FM POWER DIVIDER FOR 87,5 TO 108 MHZ. BAND  
POWER HANDLING OF 4 KW. EIA 7/8" INPUT  
CONNECTOR, 4 DIN 7/16" OUTPUTS
  
- 1     **DIV 4 - 4S**  
FM POWER DIVIDER FOR 87,5 TO 108 MHZ. BAND  
POWER HANDLING OF 4 KW. EIA 7/8" INPUT  
CONNECTOR, 4 DIN 7/8" OUTPUTS
  
- 1     **DIV 4 - 6**  
FM POWER DIVIDER FOR 87,5 TO 108 MHZ. BAND  
POWER HANDLING OF 4 KW. EIA 7/8" INPUT  
CONECTOR, 6 DIN 7/16" OUTPUTS
  
- 1     **DIV 5 - 2**  
FM POWER DIVIDER FOR 87,5- TO 108 MHZ. BAND  
POWER HANDLING OF 5 KW. EIA 1 5/8" INPUT  
CONNECTOR, 2 EIA 7/8" OUTPUTS
  
- 1     **DIV 8 - 2**  
FM POWER DIVIDER FOR 87,5 TO 108 MHZ. BAND  
POWER HANDLING OF 8 KW. EIA 1 5/8" INPUT  
CONNECTOR, 2 EIA 7/8" OUTPUTS
  
- 1     **DIV 8 - 4**  
FM POWER DIVIDER FOR 87,5 TO 108 MHZ. BAND  
POWER HANDLING OF 8 KW. EIA 1 5/8" INPUT  
CONNECTOR, 4 EIA 7/8" OUTPUTS
  
- 1     **DIV 8 - 6**

FM POWER DIVIDER FOR 87,5 TO 108 MHZ BAND  
POWER HANDLING OF 8 KW. EIA 1 5/8" INPUT  
CONNECTOR, 6 EIA 7/8" OUTPUTS

1 **DIV 15 - 2**  
FM POWER DIVIDER FOR 87,5 TO 108 MHZ BAND  
POWER HANDLING OF 14 KW. EIA 1 5/8" INPUT  
CONNECTOR, 2 EIA 1 5/8" OUTPUTS

1 **DIV 15 - 4**  
FM POWER DIVIDER FOR 87,5 TO 108 MHZ BAND  
POWER HANDLING OF 14 KW. EIA 1-5/8"  
INPUT CONNECTOR, 4 EIA 7/8" OUTPUTS

1 **DIV 15 - 6**  
FM POWER DIVIDER FOR 87,5 TO 108 MHZ. BAND  
POWER HANDLING OF 14 KW. EIA 1-5/8"  
INPUT CONNECTOR, 6 EIA 7/8" OUTPUTS

## **MOBILE RADIO TRANSMISSION UNITS**

1 **MRI 20 DIG**  
UNIT MADE OF A MIXER (4 CHANNELS) AND A  
TRANSMITTER, EXTERNALLY SYNTHESIZED, WITH  
RF OUTPUT OF 20 W. LCD METER DISPLAY FOR  
FORWARD/REFLECTED POWER, MODULATION  
LEVEL, BATTERY CHARGE. SUPPLIED FOR  
FREQUENCIES FROM 175 TO 470 MHZ. IN 20 MHZ  
BANDS, AND 10 KHZ STEPS. MADE TO WORK WITH  
INTERNAL BATTERY, 12 VDC EXTERNAL BATTERY  
AND 100-220 VAC, WITH TELEPHONE HIBRID  
INCLUDED

1 **RECEIVER MR PLATINUM**  
RADIO LINK RECEIVER FOR FREQUENCIES FROM 175MHz  
TO 470 MHz SUPPLIED IN 20MHz BANDS, EXTERNALLY  
SYNTHESIZED, LCD METER FOR PARAMETER READINGS  
AS FREQUENCY (6 DIGITS), RF LEVEL, SUB-CARRIER LEVEL.  
WITH MONO/ STEREO (MPX), AND 3 SCA AUDIO OUTPUTS  
AND REMOTE CONTROL.

## **STEREO GENERATOR AND AUDIO PROCESSORS**

1 **GED 10**  
DIGITAL STEREO GENERATOR WITH RDS AND SCA  
INPUTS, 45 - 60 dB SEPARATION

1 **COM LIM 3**  
AUDIO PROCESSOR MADE WITH LIMITER COMPRESSOR,  
3 BANDS EQUALIZER AND DIGITAL STEREO GENERATOR

WITH BETTER THAN 60 dB SEPARATION

- 1 **COM LIM 3 DIG**  
AUDIO PROCESSOR COMPRISED OF LIMITER COMPRESSOR, 3 BAND EQUALIZER AND DIGITAL STEREO GENERATOR WITH 60 dB SEPARATION. LEFT - RIGHT CHANNEL INPUT, MPX OUTPUT, AES-SBU DIGITAL INPUT AND AES-SBU DIGITAL OUTPUT
- 1 **RDS RADIO DATA SYSTEM**  
RADIO DATA SYSTEM TO PLUG IN ANY STEREO GENERATOR

## **BROADCAST AUDIO MIXER**

- 1 **MIX ONE 100**  
MIXER STANDARD TYPE, INTERNALLY MODULAR, MADE WITH 6 CHANNELS, 12 AUDIO INPUTS, 2 TELEPHONE HYBRIDS, 2 ANALOGUE OUTPUT MASTERS, CUEING, STUDIO/SPEAKER ROOM INTER-CONNECTION
- 1 **MIX ONE 100 DIG**  
MIXER STANDARD TYPE, INTERNALLY MODULAR, MADE WITH 6 CHANNELS, 12 AUDIO INPUTS, 4 ANALOGUES STEREO INPUTS, 2 DIGITAL INPUTS 2 TELEPHONE HYBRIDS, 2 ANALOGUE OUTPUT MASTERS AND 2 DIGITAL OUTPUT MASTERS, CUEING, STUDIO/SPEAKER ROOM INTER-CONNECTION
- OPTIONS*
- 2 OUTPUT CONVERTER FIBER OPTIC TO AES-EBU (ONLY NEEDED IF THE CD PLAYERS DO NOT HAVE AES-EBU OUTPUT)
- 1 **EXTERNAL SIGNALLING SYSTEM (ON AIR)**
- 1 **MMS 412 STANDARD**  
MODULAR TYPE AUDIO MIXER, COMPRISED OF 4 MIC/LINE STEREO MODULES, 1 PHONE/LINE STEREO MODULE, 5 LINE/LINE STEREO MODULES, AND 2 TELEPHONE MODULES. 2 MASTERS, 1 ANTENNA MASTER (1 RECORDING), ON AIR INPUT, STUDIO AMPLIFIER 10 PLUS 10 W. HEADPHONES AMPLIFIER WITH MONITORING SYSTEM, SIGNALING AND COMMANDS
- 1 **MMS 412 STANDARD - DIG**  
MODULAR TYPE AUDIO MIXER COMPRISED

OF 5 MIC/LINE ANALOG MODULES, 1 PHONO/LINE MODULE, 3 LINE/LINE ANALOG STEREO MODULES, 2 TELEPHONE MODULES, 2 OUTPUT ANALOG MASTERS AND 2 OUTPUT DIGITAL MASTERS. HEADPHONE OUTPUT, ON AIR INPUT, AMPLIFIER 10 W + 10 W, MONITORING SYSTEM, SIGNALING AND COMMANDS

*OPTIONS*

- 2 OUTPUT CONVERTER FIBER OPTIC TO AES-EBU (ONLY NEEDED IF THE CD PLAYERS DO NOT HAVE AES-EBU OUTPUT)
- 1 **MMS 412 BASIC CONSOLE**  
BASIC CONSOLE FOR MODULAR MIXER, MADE OF METALLIC CHASIS AND WOOD FINISH. IT COMES WITH 2 STEREO MASTERS, ON AIR INPUT, STUDIO AMPLIFIER 10 PLUS 10 W, MONITORING SYSTEM, SIGNALING AND COMMANDS. HEADPHONES AMPLIFIER AND 4 VU-METERS, OPEN SPACE FOR 12 INPUT MODULES. + 6 dBm OUTPUT LEVEL
- 1 **MIC / LINE MODULE**  
MIC INPUT -70 / - 50 dBm, 200 Ohm. BALANCED  
LINE INPUT -10 / + 10 dBm, 30 Kohm
- 1 **PHONE/LINE MODULE**  
LINE INPUT - 10 / + 10 dBm 30 Kohms PHONE INPUT  
, - 52 / - 35 dBm 47 Kohms
- 1 **LINE / LINE MODULE**  
LINE INPUT - 10 / + 10 dBm 30 Kohms.
- 1 **TELEPHONE MODULE**  
LOCAL TELEPHONE COMPANY SERVICE INPUT LEVEL
- 1 **BLANK COVER**

**COAXIAL CONNECTORS**

- 1 **CN N 1/2"**  
N TYPE CONNECTOR FOR 1/2" HELIAX CABLE  
50 Ohm
- 1 **CN N 7/8"**  
N TYPE CONNECTOR FOR 7/8" HELIAX CABLE  
50 Ohm
- 1 **CN 7/16 FOR 1/2"**  
DIN 7/16" CONNECTOR FOR 1/2" HELIAX CABLE  
50 Ohm



- 1     **CN 7/16 FOR 7/8"**  
DIN 7/16" CONNECTOR FOR 7/8" HELIAX CABLE  
50 OHM
  
- 1     **CN EIA 7/8" FOR 1/2"**  
EIA 7/8" FLANGE CONNECTOR FOR 1/2" HELIAX  
CABLE, 50 Ohm
  
- 1     **CN EIA 7/8" FOR 7/8"**  
EIA 7/8" FLANGE CONNECTOR FOR 7/8" HELIAX  
CABLE, 50 Ohm
  
- 1     **CN EIA 1+5/8" FOR 7/8"**  
EIA 1 5/8" FLANGE CONNECTOR FOR 7/8" HELIAX  
CABLE, 50 Ohm
  
- 1     **CN 1+5/8" FOR 1 5/8"**  
EIA 1 5/8" FLANGE CONNECTOR FOR 1 5/8 HELIAX  
CABLE 50 OHM.
  
- 1     **ADAPTER EIA 7/8"**  
TO N (F) TYPE CONNECTOR
  
- 1     **ADAPTER EIA 1 5/8"**  
TO N (F) TYPE CONNECTOR

## **COAXIAL CABLES**

- X m     HELIAX FOAM 1/2" CABLE
  
- X m     HELIAX FOAM 7/8" CABLE
  
- X m.    HELIAX FOAM 1 5/8" CABLE
  
- X m.    RG 213, 50 Ohm CABLE
  
- X m.    RG 214, 50 Ohm CABLE