



D :: MATV & Distribution

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MATV Catalogue

All these products and more are covered in our MATV catalogue.
Please ask an NAS representative for your copy, or visit www.nasaustralia.com.au to download a copy.



Modulators with Vestigial Side Band (VSB) output
Channel to channel converters with processing via IF
FM amplifiers that allow FM signal processing in MATV systems
Single input broadband amplifier
Programmable Selective Amplifier
Broadband amplifier with separate VHF and UHF processing
MATV Reverse Path Broadband amplifier

FAGOR Single Channel Amplifiers

Single Channel Amplifiers

Single channel amplifier, suitable for amplifying and filtering of TV signals in MATV headend systems. These amplifiers are perfect for working in adjacent channels.

Medium to large sized community digital and analogue TV installations located in poor reception areas with large differences in levels between channels.

Features:

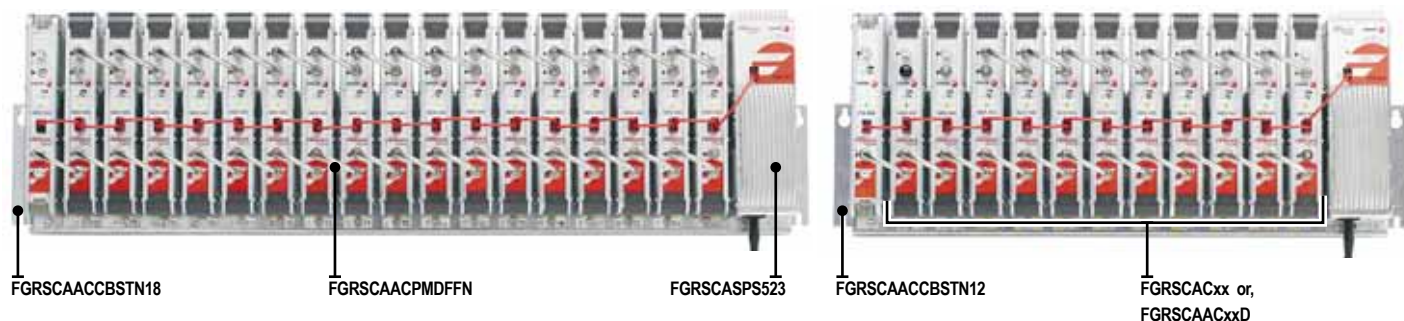
- Metal chassis integrating the input/output connectors to give the unit greater strength
- High shielding degree
- High reliability and screening factor due to "F" connectors.
- Modular design that allows channel configuration according to installation needs.
- The use of filters with high "Q" factor inductive lines guarantees a high channel selectivity.
- Easy to set up due to its system of splitting at input and combining at output.



Technical Specifications

Reference	NEX 401	NEX 402	NEX 403	NEX 445
Channels	0 - 2	FM 87 / 108	6 - 12	28 - 69
Max. output level (DIN 45004K)	123 dBuV	120 dBuV (DIN B -35dB)	123 dBuV	117 dBuV
Gain	40 dB	38 dB	40 dB	40 dB
Gain adjustment	30 dB	30 dB	30 dB	30 dB
Bandwidth	7 MHz	21 MHz	7 MHz	8 MHz
Selectivity				
PV _N -PA _N -1	15 dB	35 dB @ -14MHz	14 dB	20 dB
PA _N -PV _N +1	15 dB		14 dB	20 dB
PV+20 MHz	>70 dB	30 dB @ +14MHz	70 dB	>70 dB
Return Losses	9 dB	9 dB	9 dB	9 dB
Noise Figures	11 dB	4 dB	11 dB	11 dB
Current Drawn (24 VDC)	90 mA	65 mA	105 mA	65 mA
Input-Output impedance	75 Ω	75 Ω	75 Ω	75 Ω
Input-Output connectors	F	F	F	F
Packing dimensions	195 x 70 x 32 mm	195 x 70 x 32 mm	195 x 70 x 32 mm	195 x 70 x 32 mm
Weight	.45 Kg	.45 Kg	.45 Kg	.45 Kg

FAGOR head end amplifiers are built on demand to customer spec. When ordering, please specify which channels you require to be amplified.



Nexum Accessories

Stockcode	Description
FGRSCAACCBSTN18	Wall Frame Nexum SCA 18 module
FGRSCAACCBSTN12	Wall Frame Nexum SCA 12 module
FGRSCAACCBSTN06	Wall Frame Nexum SCA 6 module
FGRSCAACBSKN10	19 inch rack frame for Nexum SCA series
FGRSCAACCPMDFFN	F-F Coaxial Bridge for Nexum SCA

Stockcode	Description
FGRSCASPS523	Nexum Series SCA power supply
FGRSCAACCBSTN12	Wall Frame Nexum SCA 12 module
FGRSCAPL220	Phase Link 220 mm
FGRSCAPL250	Phase Link 250 mm
FGRSCAPL330	Phase Link 330 mm

FAGOR Signal Processing Series



The Fagor multi-processing system enables the MATV professional to easily customise the headend to meet any specific requirements of the consulting engineers. With an extensive range of modules to choose from, the Fagor multi-processing system has your MATV design needs covered.

The VSB modulator is filtered to allow for full adjacent channel operation in mono, stereo or dual audio modes and is fully agile covering all television channels plus S and hyperbands. With adjustable audio and video levels and output channel fine-tuning. In-built test and black screen generator.

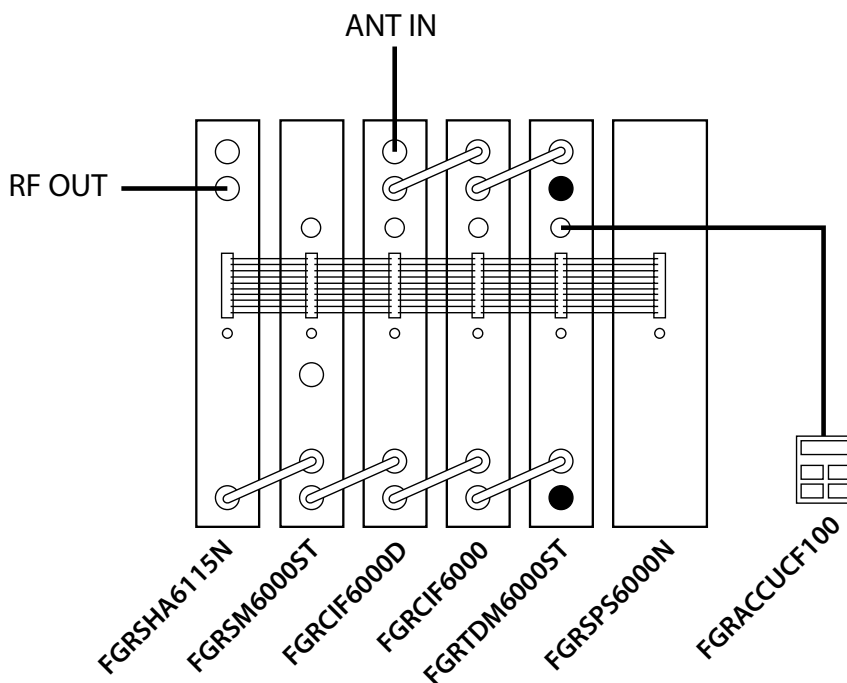
The Channel converter with built-in AGC (>30dB) and true VSB output offers a truly versatile channel converter and/or AGC signal processing unit for analogue or digital channels. FM amplifiers offer professional quality FM signal distribution throughout the MATV system. The Fagor broadband VHF/UHF amplifier is a medium to high gain unit that provides exceptional performance at the headend end or in-line.

Transmodulators convert digital signals to analogue with either 16:9 or 4:3 aspect ratio. These modules are adjacent channel compatible.

The Fagor multi-processing system comes with several mounting options including wall mounting and rack mounting as well as ventilated metal housing with lockable door. Each module is fully programmable using the same removable external programming unit. The power supply is suitable

MATV Catalogue

Full specifications are included in our MATV catalogue.




Description	SCM 6000	SCM 7000
Modulator with Vestigial Side Band (VSB) output	FGRSM6000ST	FGRSM7000ST
Channel to channel converter with processing via IF	FGRCIF6000	FGRCIF7000
FM amplifier that allows radio signal processing in MATV systems	FGRAFM6000	FGRAFM7000
Single input broadband amplifier	FGRSHA6115N	FGRSHA7115N
67W output Power Supply that provides the operating voltage for all modules	FGRSPS6000N	FGRSPS7000N
106W output Power Supply that provides the operating voltage for all modules	FGRSPS6100	FGRSPS7100
COFDM-PAL Stereo Transmodulator	TDM6000ST	FGRTDM7000ST
1st IF SAT Amplifier	FGRIFA6000N	FGRIFA7000N
Frame		FGRACCBST608
Housing: This housing is lockable and fits 9 modules & power supply. Dimensions: 650 x 410 x 205mm. Weight: 8kg		FGRACCCFRN56V
Aireation Kit		FGRACCVNT56
19" Rack Frame, Rack or wall mounted. Size: 6U height. Dimensions: 483 x 189 x 265mm.		FGRACCBST708
CC01: Blind Cover, Suitable for covering free slots in the 19" rack frame		FGRACCC01
CP01: Cable Passage Cover, Blind cover prepared for cable passage		FGRACCCP01
Ventilation Unit-SCM 7000: Suitable for assembly with the 19" rack frame. Supply voltage: 220 Vac. Power consumption: 22 Watts. Size: 1U height.		FGRACCVNT19
Control Unit: Universal control unit designed for programming FAGOR modules.		FGRACCUCF100
Mini DIN - 3RCA Cable		FGRACCCDMRCA

FAGOR Programmable Selective Amplifiers

Fagor Programmable Selective Amplifier

Available Models:
MicroMATV Futura - No AGC
MicroMATV Futura 100C

FAGOR 
FGRMICROFUTURA
FGRMICROFUTURAC



This Intelligent Selective Amplifier can process up to 60 channels and is compatible with digital television. This programmable amplification system allows 10 UHF filtering modules to process up to 60 channels. Each filtering module allows 1-6 channels to be programmed.

Application

Designed for medium-sized analogue and digital terrestrial TV headend community installations and individual installations. Can receive signals from up to 5 antennas, allowing the system to be organised in accordance with the number of channels picked up by each.

Characteristics

- AES function: system which automatically regulates the input signals, guaranteeing a balanced output signal simplifying adjustment as much as possible. Manual adjustment option.
- **AGC function (100C only):** a system that sets the output level for all active channels, irrespective of the variation in adjacent channels. It is the only programmable amplifier to offer these characteristics (Patent Pending).
- Automatic recognition of channel type: digital or analogue and identifies empty and occupied channels.
- Easily programmable with the UCF 200 control unit, using a simple and intuitive menu. With memory to clone up to 8 different configurations and programme using a single MicroMATV key.
- Auxiliary input for channels processed by other equipment.
- Immune to broadcasts from other services like GSM, UMTS, ...
- Chassis totally made of Zamak.
- Incorporates RS 232 Serial port for firmware upgrading.
- Supply to pre-amplifiers at UHF1/UHF2 (12 V) inputs.

Technical Specifications

Band	FM	BI	BIII/DAB	AUX	UHF1	UHF2	UHF3
Bandwidth (MHz)	87.5 ~ 108	47 ~ 68	174 ~ 230	47 ~ 68 130 ~ 862		470 ~ 862	
No of amplifiers	1	1	1	1		10	
Filter width	Fixed	Fixed	Fixed	Fixed	Variable 1 ~ 6 channels		
Configuration of amplifiers per input			No		6 10 9	4 0 0	0 1 1
Gain (dB)		40		23		53	
IN Regulation (dB)	--	25	23	No		23	
OUT regulation (dB)	25			20			
AGC			NO			Programmable	
Selectivity ~20MHz (dB)			--			22	
NF (dB)		6	8	15		8	
Input Level (dBuV) analogue & digital	A 71/101 D --	70/95 55/80	70/93 55/78	90 75		60/83 45/68	
Decoupling between inputs (dB)			--			20	
Outputs							
No of outputs			1				
Band			RF				
Bandwidth (MHz)			47 ~ 68 MHz 130 ~ 862 MHz				
Vo IM3 DIN45004B (2)			121 dBuV				
Dimensions (mm)			390 x 275 x 60				
Weight (Kg)			4.5				

MICROMATV book

Available Models:
MICROMATV book

FAGOR 
FGRMICROBOOK



Programmable selective amplifier for receiving analogue and digital signals in single-family homes and small communities. All programming can be carried out quickly and easily by means of the keypad and display on the unit itself.

Application

Suitable for small- and medium-sized installations. Ideal for use in low cost community projects.

Characteristics

- 2 programmable UHF inputs distributed between 5 programmable filters with width of up to 7 channels per filter, giving a total capacity of 7x5 = 35 channels.
- 1 BI/BIII/DAB input.
- 1 FM input.
- 1 auxiliary input.
- Output level directly programmable from keypad.
- 4-digit display and 5-key keypad incorporated.
- UHF and VHF filter extension module.

Technical Specifications

Band	BI / BIII / DAB	UHF	AUXILIAR	FM
No of inputs	1	2	1	1
No of filters	Broadband	5 programable	Broadband	Broadband
Input and filter configuration	—	UHF 1 5/4/3	UHF 2 0/1/2	—
Bandwidth	47-68 MHz 174-230 MHz	470-862 MHz	470-862 MHz	87.5 ~ 108 MHz
Programmable filter width (channels)	—	1 ~ 7 MHz	—	—
Gain	35 dB	45 dB (35)	18 dB	30 dB
Independent regulation per filter	30 dB	30 dB	—	30 dB
Selectivity N (+20 MHz)	—	20 dB	—	—
Noise figure	8 dB	9 dB	—	6 dB
Input level	A 70 ~ 93 dBuV D 60 ~ 83 dBuV	60+83 / (70+93) 50+73 / (60+83)	90 dBuV 80 dBuV	71 ~ 101 dBuV —
Output level DIN 45004B -60 dBc		114 dBuV		105 dBuV
Operational output level for 10 analogue channels		107 dBuV		—
Operational output level for 10 digital channels		97 dBuV		—
pass 0 / 12 / 24 VDC	mA	50	50	—
Dimensions		280 x 220 x 63 (mm)		
Weight		1.35 Kg		

GSS Digital Modulation



GSS digital head-end equipment consists of several levels according to required specifications.

The Standard Grade is designed to meet every expectation for commercial MATV installers worldwide. Standard Grade equipment has similar performance to the well known German brands, and priced attractively to suit "real world" installations. Modules claim greater than **50dB C/N** as standard. Modules are fully enclosed and shielded and compatible with local or remote control. Housings suit 19" rack systems or stand alone wall and shelf installations.

The Professional Grade system consists of similar modules and housings to the Standard Grade, but with **60dB C/N** performance and extensive remote control and monitoring solutions.

GSS Standard Series

Multi-channel Digital Modulator / Transmodulator

Available Models:

Multi-channel Digital Modulator / Transmodulator



Technical Specifications

No. of inputs	2 Satellite + 1 ASI (serial digital)
IF (Sat) Input frequency range	950 – 2150 MHz
DVB-T Modes	2k, 4k and 8k
Modulation Scheme	QPSK, 16-QAM or 64-QAM
Guard Interval	1/4, 1/8, 1/16 and 1/32
ASI in / ASI out interfaces	In + Out
Ethernet interface	Yes
Common Interface	1 CI Cam Slot
Software download	via RS-232
Output frequency range	42 - 860 MHz

Two-channel MPEG Digital Encoder

Available Models:

Two-channel MPEG Digital Encoder



Technical Specifications

No. of inputs	2 x CVBS / 2 x S-Video
Transport Stream	MPEG-2 (ISO/IEC 13818-1)
ASI Input / Output	BNC 75 ohm / BNC 75 ohm
ASI Maximum Data Rate	108 Mb/s
Available Data Rate	2 ~ 90 Mb/s
LAN	10/100/1000 Mb/s
IP Transport Stream	SPTS/MPTS
IP Protocols	UDP / RTP
Control Interface	RS232

8 Module Wall / Shelf & Rack Systems

Available Models:

8 Module Wall / Shelf System
8 Module 19 inch Rack System



Technical Specifications

Model	Wall/Shelf System	Rack System
No. of slots for cassettes	8	
Fit for adjacent channels	yes	
Input/output impedance	75 Ω	
S/N weighted	55 dB	
Input frequency range	47 - 862 MHz, 950 - 2150 MHz	
RF output level adjustment	max. 106 dBμV/- 20 dB	
Mains voltage/Frequency 50/60 Hz	195 - 260 V	
Weight (fully loaded)	approx. 21 kg	approx. 20 kg
Dimensions (W x H x D)	approx. 53.5 x 35 x 31 cm	approx. 48.2 (19") x 35.5 (8 HU) x 25.4 cm

Single Module 19 inch Rack System

Available Models:

Single Module 19 inch Rack System



Technical Specifications

No. of slots for cassettes	1
Fit for adjacent channels	yes
Input/output impedance	75 Ω
Programming	GSSBE-REMOTE (not included)
S/N weighted	55 dB
Input frequency range	47 - 862 MHz, 950 - 2150 MHz
RF output level	max. 80 dBμV
Output frequency range	42 - 860 MHz
dependent upon cassettes	47 - 862 MHz
Mains voltage/Frequency 50/60 Hz	12 V DC via wall power supply unit
Power consumption max.	approx. 20 W
Weight (fully loaded)	approx. 3.3 kg
Dimensions (W x H x D)	approx. 48.2 (19") x 4.3 (1 HU) x 20.5 cm

Module Control Unit

Available Models:

Module Control Unit

The BE-REMOTE unit is a standard RS-232 controller for German head end MATV equipment. The controller is built in to GSSSTR19-8 and GSSSTC316. It is available separately to control individual cassettes loaded into the GSSPST19-1. All functions are accessible. It is also controllable itself by a local or remote RS-232 software controller.



GSS Professional Series

8 Module Wall / Shelf & Rack Systems

Available Models:

8 Module Wall / Shelf System
8 Module 19 inch Rack System



Technical Specifications

Model	Wall/Shelf System	Rack System
No. of slots for cassettes	8	
Fit for adjacent channels	yes	
Input/output impedance	75 Ω	
S/N weighted	55 dB	
Input frequency range	47 - 862 MHz, 950 - 2150 MHz	
RF output level adjustment	max. 106 dBμV/- 20 dB	
Mains voltage/Frequency 50/60 Hz	195 - 260 V	
Weight (fully loaded)	approx. 20 kg	approx. 21 kg
Dimensions (W x H x D)	approx. 48.2 (19") x 35.5 (8 HU) x 25.4 cm	approx. 53.5 x 35 x 31 cm

Multi-channel Digital Modulator / Transmodulator

Available Models:

Multi-channel Digital Modulator / Transmodulator



Technical Specifications

No. of inputs	2 Satellite + 1 ASI (serial digital)
IF (Sat) Input frequency range	950 – 2150 MHz
DVB-T Modes	2k, 4k and 8k
Modulation Scheme	QPSK, 16-QAM or 64-QAM
Guard Interval	1/4, 1/8, 1/16 and 1/32
ASI in / ASI out interfaces	In + Out
Ethernet interface	Yes
Common Interface	1 CI Cam Slot
Software download	via RS-232

Two-channel MPEG Digital Encoder

Available Models:

Two-channel MPEG Digital Encoder



Technical Specifications

No. of inputs	2 x CVBS / 2 x S-Video
Transport Stream	MPEG-2 (ISO/IEC 13818-1)
ASI Input / Output	BNC 75 ohm / BNC 75 ohm
ASI Maximum Data Rate	108 Mb/s
Available Data Rate	2 ~ 90 Mb/s
LAN	10/100/1000 Mb/s
IP Transport Stream	SPTS/MPTS
IP Protocols	UDP / RTP
Control Interface	RS232

Terrestrial Distribution Amplifiers

Kingray DW32 Wideband Distribution Amplifier

Available Models: **Kingray**
Kingray DW32 Wideband Distribution Amplifier AMPDW32



F type distribution amplifier designed for a separate VHF or UHF antenna or a combined antenna via switch at the input. Can be remotely powered to the output. Packed with a PSK065 power supply. includes a -30dB test point.

Technical Specifications

Gain (dB)	VHF	UHF
	26~ 28dB (44-230MHz)	32 (470-860MHz)
Gain Control	1x 10db	1x 10db
Maximum Output	112dBuV	112dBuV

Inc. Power Supply

Kingray DW42 Wideband Distribution Amplifier

Available Models: **Kingray**
Kingray DW42 Wideband Distribution Amplifier AMPDW42

The AMPDW42 is a new product ready for digital applications. Inputs can be separated into UHF/VHF or combined. Power supplies are available for either stand alone or rack mounted applications.



PAYTV Approved

Needs PSK18S

Technical Specifications

Gain (dB)	VHF 35~37dB (44 - 300 MHz) UHF 40dB (470 - 860 MHz)
Gain Control	VHF 2 x 20dB (Low Band/ High Band) UHF 1 x 20db
Maximum Output	VHF 118dBuV UHF 118dBuV

Kingray DA43 Wideband Distribution Amplifier

Available Models: **Kingray**
Kingray DA43 Wideband Distribution Amplifier AMPDA43

The AMPDA43 is a new product ready for digital applications. Inputs can be separated into UHF/VHF or combined. Power supplies are available for either stand alone or rack mounted applications.



PAYTV Approved

Needs PSK18S

Technical Specifications

Gain (dB)	40dB (44-860MHz)
Gain Control	1x 20dB
Switchable slope control	0, 5, 10, 15dB
Maximum Output	118dBuV

Satellite Distribution Amplifiers

SAT42D Satellite Dual IF Distribution Amplifier

Available Models: **Kingray**
Kingray SAT42D Satellite IF Distribution Amplifier AMPSAT42D

Dual input and F-Type Satellite Distribution Amplifier. Capable of powering both vertical and horizontal LNB's simultaneously via the onboard regulator.

PAYTV Approved

Needs PSK18S

Technical Specifications

Gain (dB)	40dB (950 ~ 3000MHz)
Gain Control	single 20dB
Maximum Output	122dB (-35dB IMR)



SAT29 Satellite Dual IF Distribution Amplifier

Available Models: **Kingray**
Kingray SAT29D Satellite IF Distribution Amplifier AMPSAT29D

Dual input and F-Type Satellite Distribution Amplifier. Capable of powering both vertical and horizontal LNB's simultaneously via the onboard regulator.

Technical Specifications

Gain (dB)	29dB (950 ~ 3000MHz)
Gain Control	single 10dB
Maximum Output	122dB (-35dB IMR)



Zinwell Multi-Input SMATV amplifier

Available Models:
Zinwell Multi-input SMATV Amplifier AMPSMA510



- 5 signal inputs including satellite and terrestrial selections
- Excellent for satellite and terrestrial antenna SMATV one cable solution distribution system
- Single coaxial cable carries satellite IF and terrestrial TV
- Adjustable gain controls on all inputs
- 40~2150 MHz frequency range
- AC/DC adaptor included (15V DC 600 mA)

Broadband amp with separate VHF & UHF processing

Available Models: **FAGOR**
Broadband amp with separate VHF/UHF processing FGRAMPSAB402
Reverse path broadband amplifier FGRAMPSAB301
30dB 4 Input Split Band Amplifier FGRAMPSAB304



The SAB301 & SAB402 can be used as a broadband distribution amplifiers or in-line amplifier in MATV systems. Additionally, the SAB301 covers the return path band 5-30 MHz.

- Fully shielded amplifier
- Covers the return path band 5-30 MHz (SAB301 only)
- High level of mechanical rigidity with complete protection against electrical interference

Wideband

Fagor MATV Reverse path broadband amplifier

Available Models: **FAGOR**
Fagor MATV Reverse path broadband amplifier FGRAMPDA354



Designed to work under adverse weather conditions, where a robust amplifier is needed.

- Fully shielded amplifier
- Covers the return path band 5-30 MHz
- Slope control
- Built in switch mode power supply

Modulators

UHF/VHF Kingray Stereo Modulators

Available Models: **Kingray**
VHF Kingray Stereo Modulator MODMD100VS
UHF Kingray Stereo Modulator MODMD100US
19" sub rack / wall mount AMPKR001
add on passive combiner to suit KR001 AMPKR002
rack packages of 6 or 8 stereo modulators. MODAP6 / MODAP8

- Double sideband
- A/V Input - RF Output
- Outputs are phase lock looped (250KHz steps)

Needs PSK18S



Technical Specifications

Frequency	VHF (44 - 470 MHz) UHF (470 - 860 MHz)
Gain Control	VHF 3x 40dB UHF 3x 40dB
Maximum Output	VHF 103dBuV UHF 103dBuV

Kingray Masthead Amplifiers



Photo	Description	Stock code	Connectors	Frequency Range (MHz)		Maximum Gain (dB)		Power Supply
				VHF	UHF	VHF	UHF	
	Masthead distribution amplifier 44-860Mhz.	AMPMDA20L	F-Type	44-	-860		19	Included
	Masthead distribution amplifier 174-860Mhz.	AMPMDA20H	F-Type	174-	-860		19	Included
	Masthead distribution amplifier 520-860Mhz.	AMPMDA20U	F-Type	520-	-860		19	Included
	designed for single VHF/UHF combo antenna.	AMPMHW24G	Screw & Saddle	44-470	470-860	18	24	
	F-type: amplifies separate UHF and VHF antennas or combination antennas.	AMPMHW24F	F-Type	44-230	520-820	12-15	24	
	F-type: amplifies single UHF/VHF antenna or a single combination antenna.	AMPMHW24FE	F-Type	44-820		22-24	24	
	Same as above but fully shielded.	AMPMHW24FS	F-Type	44-470	470-860	20-24	24	
	designed for separate VHF/UHF antennas.	AMPMHW34G	Screw & Saddle	44-230	520-860	20-27	34	
	amplifies separate/combo VHF/UHF antennas.	AMPMHW34F	F-Type	44-230	520-860	20-27	34	
	In-Line Amplifier	AMPMHW34FIL	F-Type	44-230	520-860	20-27	34	
	Fully Shielded, amplifies separate/combo VHF/UHF antennas.	AMPMHW34FS	F-Type	44-230	520-860	20-27	34	
	amplifies separate/combo VHF/UHF antennas. BULK PACK x10	AMPMHW34FBP	F-Type	44-230	520-860	20-27	34	
	can amplify either separate or combo antennas.	AMPMHW38G	Screw & Saddle	44-230	520-860	20-28	32-38	
	Kingray Amp. F Type UHF -42 dB VHF-34dB Fully Shielded	AMPMHW42FS	F-Type	44-230	520-820	34	42	
	amplifies UHF antenna. Diplexes VHF antenna.	AMPMHU24T	Screw & Saddle	44-230	520-860	-1	24	
	amplifies UHF antenna. Diplexes VHF antenna.	AMPMHU24F	F-Type	44-230	520-820	-2	24	
	amplifies UHF antenna & Diplexes VHF antenna or amplifies the UHF component of a combo antenna.	AMPMHU34G	Screw & Saddle	44-230	520-860	-1	34	
	amplifies UHF antenna & Diplexes VHF antenna or amplifies the UHF component of a combo antenna. Fully Shielded.	AMPMHU34FS	F-Type	44-230	520-860	-1	34	Included
	Kingray Amp. F Type UHF -42 dB Fully Shielded	AMPMHU42FS	F-Type	44-230	520-820	-2	42	
	amplifies a UHF antenna & Diplexes separate VHF antenna.	AMPMHU44G	Screw & Saddle	44-230	520-860	-1	44	
	Amplifies VHF antenna & Diplexes separate UHF antenna.	AMPMHV34G	Screw & Saddle	44-230	520-860	38	-1	
	Amplifies VHF antenna & Diplexes and amplifies a UHF antenna.	AMPMHV44HLG	Screw & Saddle	44-230	520-860	44	10	
	2-way splitter amplifier BL type.	AMP162	Belling Lee	44-470	470-860	12	16	
	2-way splitter amplifier F type	AMP162F	F type	44-470	470-860	12	16	
	4-way splitter amplifier BL type	AMP164	Belling Lee	44-470	470-860	12	16	
	4-Way Splitter Amplifier F-type	AMP164F	F type	44-470	470-860	12	16	
	4-way splitter amplifier Inc Power Supply	AMP164R	F type	44-470	470-860	12	16	Included
	4-way splitter amplifier. Remote power to any output with power through input switch feature.	AMP164R	F type	44-470	470-860	12	16	Included
	4-way splitter amplifier. Remote power to any output with power through input switch feature.	AMP164R	F type	44-470	470-860	12	16	Included

Kingray power Supplies

Description	Stock Code	Connector
240VAC to 12VDC, 100mA	AMPPSK01	PAL
240VAC to 22VAC, 100mA	AMPPSK02	PAL
240VAC to 14VDC, 150mA	AMPPSK06	PAL
240VAC to 14VDC, 150mA	AMPPSK06F	F-Type
240VAC to 17.5VAC, 100mA	AMPPSK08	PAL
240VAC to 17.5VAC, 100mA	AMPPSK08F	F-Type
240VAC to 12VDC, 500mA	AMPPSK12S	2.5mm DC
240VAC to 12VDC, 500mA	AMPPSK12F	F-Type
240VAC to 18VDC, 500mA	AMPPSK18S	2.5mm DC
240VAC to 18VDC, 500mA	AMPPSK18F	F-Type
240VAC to 15VDC, 1.7A	AMPPSK18KR	2.5mm DC

Power Supplies

12 VDC 100mA Power Injector

Available Models:

12 VDC 100mA Power Injector AMPPSU01



22 VAC 150mA Power Injector

Available Models:

22VAC 150mA Power Injector AMPPSU02



30 VAC 1.5A Power Injector

Available Models:

30 VAC 1.5A Power Injector **Kingray**
AMPPIK01

Power Injector Kingray With DC Plug And With 'F' Type On The TV and Amp. Side.



Power Injector

Available Models:

Power Injector **Kingray**
AMPPAK01

Power Adaptor Kingray 3 Way



30V at 300mA Power Injector

Available Models:

30V at 300mA Power Injector **Kingray**
AMPPIK170



Dotted Line: +ve

60V at 1.5A Power Injector

Available Models:

60V at 1.5A Power Injector **Kingray**
AMPPIK1750



Brown: +ve
Blue: -ve

Power Injector

Available Models:

Power Injector **Kingray**
AMPPIK2000



Power Injector

Available Models:

Power Injector **Kingray**
AMPKLE01



2.5mm Plug ~ 2.5mm Socket

Available Models:

2.5mm Plug ~ 2.5mm Socket **Kingray**
AMPADC322



2.5mm Socket ~ 4x 2.5mm Plugs

Available Models:

2.5mm Socket ~ 4x 2.5mm Plugs **Kingray**
AMPADC324



UHF Radio & Accessories

GME Electrophone UHF Handheld Radio

Available Models:

GME Electrophone UHF Handheld radio **Kingray**
RADTX650

40 Channel UHF handheld radio transceiver

- .5/1W RF Power Output
- CTCSS (38 Separate Tones)
- VOX
- Signal Strength Indicator
- Low Battery Indicator
- Keypad Lock
- Backlit LCD Display
- Roger Beep Tone
- Calling tone
- Power Save Mode
- Scan • Duplex • Belt Clip



FSM Hire Services

High Quality Field Strength Meters are available for hire on a per day basis.



From just \$45 a day you can have access to the latest terrestrial and satellite instruments. Contact NAS Directly for more information.

Field Strength Meters

Digital Satellite Finder & Meter

Available Models:

Digital Satellite Finder & Meter

FSMSF-3000S

- Frequency range: 950~2150MHz
- Level range: -65dBm ~ -25dBm
- Input resistance: 750ohm
- Symbol rate: 2Mps ~ 45 Mps
- Dimension: 250x120x60(mm)
- Net weight: 0.8Kg
- Gross weight: 1.6Kg
- Working temperature: 0°C ~ +40°C
- Display: 128x64 wide-range temperature liquid crystal display.
- Audio output: build-in speaker
- Port: USB (default)
- Switch: 22 KHz support
- LNB power supply: 'H' +18V, :500mA; 'V' +13V, :500mA
- DC power supply: DC8.4V chargeable battery
- Power adapter input: AC 110V/60Hz 220V/50Hz ± 10%
- Power adapter output: 9.6 V DC 800mA
- Working time: working hours 3~4 hours (full charge)
- Charging time: more than 4 hours, less than 5 hours.



Accessories

- Common power supply adapter or Cigarette lighter adapter (Note: Adapter is optional.)
- RF input connector GMHF-L3/8-JK
- Instrument bag
- Operator's manual
- CD-ROM
- Data cable

Sefram 7803b Digital Terrestrial FSM

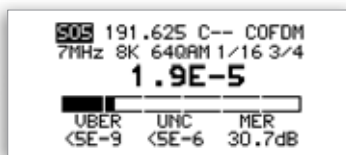
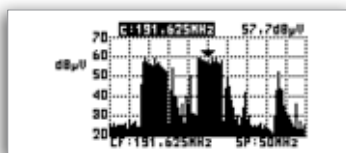
Available Models:

Sefram 7803b Digital FSM

FSMSEFRAM7803B



Advanced digital terrestrial field strength meter with real time measurements and constellation diagram. Comprehensive user manual contains real-world applications and solutions.



- Real-time dynamic measurements
- True hardware measurements
- Shockproof housing for extensive field use
- Easy to use with direct access functions
- Memorisation of measurements, frequency maps & programs.
- BER, MER for terrestrial TV (COFDM)
- Spectrum analysis
- Constellation pattern

Technical Specifications

Frequency Band	45MHz to 865MHz
Dynamic Range	20dBuV to 120 dBuV
C-BER/V-BER	Yes
MER	Yes
Spectrum	Yes
Constellation	Yes
Battery Life	3 hours (max)
Remote Supply	Car charger, AC adaptor

Sefram 7861 Digital Terrestrial / Satellite FSM

Available Models:

Sefram 7861 Digital Ter/Sat FSM

FSMSEFRAM7861



The SEFRAM 7861 provides all necessary measurements for DVB-T (COFDM), DVB-S and DVB-S2 (QPSK/8PSK).

- Panoramic 7 inch LCD coloured screen
- Weight: 2,1kg only
- Display free to air programs for digital terrestrial and satellite
- Convenient checksat mode
- Full measurements DVB-T, DVB-S and DVB-S2
- Battery with 1 hour charging time
- Rugged carrying bag
- Water proof front panel with sensitive buttons
- Wi-fi networks measurements*
- Simplified procedure to update internal software:
- USB memory stick

Sefram 7865 Digital Terrestrial / Satellite FSM

Available Models:

Sefram 7865 Digital Terrestrial/Satellit FSM

FSMSEFRAM7865



- Digital terrestrial (DVB-T/H) and analogue
- Digital satellite (DVB-S et DVB-S2)
- Analogue and digital cable networks (DVB-C) with QAM J83-A et J83-B
- All digital measurements: BER, MER
- Wifi signal measurements (with optional accessory)
- Display digital encrypted programs (check with our sales dept)
- Spectrum analysis: ultra fast mode and expert mode
- OSD TV
- Video input / output
- Convenient checksat mode
- OSD TV, NIT, Cell ID, constellation pattern
- Impulse response
- DiSeqC 1.2 (full)
- Easy-to-use
- 7" LCD coloured screen
- Weight: only 2,1kg
- Large autonomy (4H typ.) and fast charge (1h)
- 2 years warranty
- Easy internal software update: USB memory key