



Headend Equipment

Matchmaster has a full range of Headend Equipment from entry level to complex systems, including engineering support and system designs.

Matchmaster can offer simple Channel Filters with AGC through to complex DVB modules for any type of broadcast including Encoders, Modulators & Transmodulators for DVB-T, DVB-C, DVB-S/S2, IP, ASI, SDI, FM and many more.

Headend Equipment

Multi-Channel Headend Multiband Amplifier 14MM-MA400

Features and Benefits

- » Total flexibility with this multiband amplifier offering FM, VHF and UHF amplification
- » High-level output
- » Separate manual gain controls for each band
- » Switchable attenuation for each band
- » Loop input and output with F connection



14MM-MA400 Specifications

Number of Inputs	3
Gain - FM (88-108MHz)	30dB
Gain - VHF B3 (174-260MHz)	30dB
Gain - UHF (470-862MHz)	30dB
Noise Figure	VHF <7dB; UHF <5dB
Maximum Output	VHF 116dB μ V; UHF
IMD3=60dB (DIN45004B)	118dB μ V
Gain Control Attenuator	0 to -15dB
Gain Control Switch	0/-10dB
Return Loss	>10dB
Power Consumption	12V 480mA
Operating Temperature Range	0°- +50°C

Dual Single-Channel Amplifier, AGC plus SAW Filter In and Out 14MM-AT420

Features and Benefits

- » Two completely independent channel amplifiers in each module
- » Frequency agile channel amplifiers can be reprogrammed to any UHF channel
- » Dual 8MHz SAW-filtering implemented on each channel results in class-leading channel selectivity
- » 30dB of AGC protection included for each channel, helping to maintain a stable RF output level
- » Settings are programmed through push-button interface on the front of the module



14MM-AT420 Specifications

Input	
Number of Internal Channel Amplifiers	2
Channel Allocation	New Zealand
Channel Range	21-69
Bandwidth	8MHz
Selectivity	-40dB @ \pm 2MHz from edge of 8MHz filter
Loop Through Gain	0 \pm 1.5dB
Return Loss	> 12dB
Output	
Level	85dB μ V
Attenuation Available	0-10dB in 1 dB steps
Frequency Range of RF Combining	47-2150MHz
Combining Through Loss Terr/Sat	1.5/2.5dB
Return Loss	>10dB
Noise Figure	8dB
Flatness of Channel Bandwidth	\pm 1.5dB
General	
Masthead Amplifier Supply	12V 100A max
Power Consumption	12V 450mA
Operating Temperature Range	0-50°C
Dimensions	198 x 107 x 36mm

Headend Equipment

Quad Single-Channel Amplifier, AGC plus SAW Filter In and Out 14MM-AT440

Features and Benefits

- » TV channel amplifiers tunable in UHF range
- » SAW filters provide a high selectivity processing of digital and analog channels
- » Integrated LTE signal suppression filter
- » Each section has a built-in AGC system and an independent regulator of output level
- » built-in indicators and push buttons allow operatively to set required parameters
- » DC feeding for preamplifiers through RF input



14MM-AT440 Specifications

Turning Range of Channels		470-790MHz
RF Input	TV Standard	DVB-T
	Channel Bandwidth	8MHz
	Level/Impedance	50-75dB μ V/75 Ohm
	Frequency Range of RF Distribution	47-790MHz
	Loop Through Gain	0 \pm 1.5dB
	Return Loss	>10dB
RF Output	Level/Impedance Typical	82dB μ V/75 Ohm
	MER of DVB-T Signal	\geq 36dB (input signal MER 38dB)
	Frequency Range of RF Combining	47-2150MHz
	DC Pass Through Combining	0.3A
	Through Loss Terr/SAT	1.5/2.5dB
	Level Adjustment Range	0 \pm -10dB by 1 dB step
	Return Loss	\geq 10dB
Noise Figure	8dB	
Selectivity, typical	40dB \pm 2MHz from 8 MHz Bandwidth Border	
Offset	\pm 0.25 MHz by 0.125MHz step	
Spurious Signals Level	\leq -55dBc	
Mirror Channel Selectivity	\geq 60dB	
Flatness of Channel Bandwidth	\pm 1.5dB	
DC Feeding for External	12V 0.1A max	
Current Consumption	12V 0.75A	
Operating Temperature Range	0-50°C	
Dimensions	198 x 107.5 x 48.5mm	

Twin Modulator 7-8MHz Selectable Stereo 14MM-MT420C

Features and Benefits

- » Modulating analogue video/audio signals into VSB RF channel with mono or stereo A2 sound
- » Frequency agile vestigial sideband TV modulators
- » LED display and push buttons control of internal microprocessor
- » RF output level and audio input level loop through RF combining low level harmonics and intermodulation products
- » Built-in test pattern generator



14MM-MT420C Specifications

Video Input	RCA - Composite
Video Level/Impedance	1V \pm 0.1V / 75 Ohm
Audio Input	Dual RCA
Audio Level/Impedance	775mV / 10kOhm
Audio Level Adjustment	-6dB - 6dB (2dB steps)
TV Standard	B/G/D/K/Au stereo A2
Output Frequency	110-862MHz
Output Level	90 dB μ V
Attenuation Available	0 - 10dB in 1dB steps
Frequency Range of RF Combining	47 - 2150MHz
Combining Through Loss Terr/Sat	1.5/2.5dB
Return Loss	> 10dB
A/V Ratio	12/16dB
IMD2/IMD3 Spurious Level	< -60dB
Power Consumption	12V 470mA
Operating Temperature	0° - +50°C

Headend Equipment

Multi-Channel Twin AV to DVB-T Modulator 14MM-MDX420



Features and Benefits

- » AT series family DVBT programmable twin modulators totally agile and independent channels
- » Rack mountable system
- » Loop input/output with F connection

14MM-MDX420 Specifications

Video Input	Frequency Range	20Hz - 6MHz
	Level/Impedance	1 V ± 0.1 V/75Ohms
Audio Input	Frequency Range	20Hz - 15kHz
	Level/Impedance	775mV/10kOhms
	Level Adjustment	6 - -6dB (2dB step)
Processing Video	Encoding	ISO/IEC13818-2 MPEG-2 MP@ML
	Resolution	720x576 (at 25 fps), 720x480 (at 30 fps)
	Frame Rate	25 max. PAL, SECAM, 30 max. NTSC
	Compressed System Bit Rate	2-9 Mbps
Processing Audio	Encoding	ISO /IEC11172-3 (MPEG1 audio) layer 2 compliant
	Sampling Rate	44.1kHz
	Bit Rate	256Kbps
	Audio Mode	Stereo
Modulation	MER	≥35 dB
	Modulation	QPSK, QAM16, QAM64
	Channel Bandwidth	7/8MHz
	Guard Interval	1/4, 1/8, 1/16, 1/32
	Code Rate	1/2, 2/3, 3/4, 5/6, 7/8
	Transmission	2K
RF Output	Frequency Range	110 - 860MHz
	Level/Impedance	85 dBµV/75 Ohm
	Output C/N	≥50dB
	Output Level Adjustment	0 - -15.5dB by 0.5dB step
	Frequency Range of RF Combining	47-2150MHz
	DC Pass Through Combining	0.3 A
	Through Loss Terr/SAT	1.5/2.5dB
Return Loss	≥10dB	
Current Consumption	12 V 0.65 A	
Operating Temperature	0° - +50°C	

DVB-S/S2 to DVB-T Transmodulator 14MM-TDX410C



Features and Benefits

- » Converting of DVB-S/S2 modulated input signal into COFDM modulated DVB-T channel
- » TS processing: PCR restamping, service filtering, PSI/SI regeneration, NIT generation, version monitoring
- » Loop through RF distributing at input and output
- » SNMP monitoring
- » Web interface via Ethernet port
- » Din rail mounting

14MM-TDX410C Specifications

RF Input		
Frequency Range	950-2150MHz	
LNB Powering/Control	0/14/18 V & 300 mA max. DiSEqC 1.0	
Level/Impedance	45-85dBµV/75 Ohm	
Loop Through Gain	-1 ± 1dB	
Standard	DVB-S	DVB-S2
Modulation	QPSK	QPSK, 8PSK
Symbol Rate	2 + 45 Ms/s	
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8	QPSK 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
		8PSK 3/5, 2/3, 3/4, 5/6, 8/9, 9/10
Roll Off	35%	20%, 25%, 35%
RF Output		
Frequency Range	170-230/470-860MHz	
Level/Impedance	90 ± 2dBµV/75 Ohm	
Spurious Level	< -60dB	
Loop Through	47-2150MHz/≤2.5dB	
MER	≥35dB	
Modulation DVB-T	QPSK, QAM16, QAM64	
Channel Bandwidth	7/8MHz	
Guard Interval	1/4, 1/8, 1/16, 1/32	
Code Rate	1/2, 2/3, 3/4, 5/6, 7/8	
Transmission Mode	2K/8K	
Output Level Adjustment Range	0 ± -15.0dB by 1dB step	
Transport Steam Parameters		
Max. Bit Rate	31670kbps	
Max. PID filter count*	31	
PCR Restamping	up to 5 PID's (services)	
Management Port	Standard IEE802.3 10/100 Base T	
Current Consumption**	12 V 400 mA	
Operating Temperature	- 20° - + 50°C	

Headend Equipment

DIN Rail Multi-Channel Power Supply 14MM-UP410S

Features and Benefits

- » 12V 4.5 Amp
- » AT series headend modular power supply with integrated RF combiner
- » Switch mode technology
- » Short circuit and overload protected
- » DIN rail or wall mounting, robust die-cast housing
- » Screw terminal block for DC output power distribution bus



14MM-UP410S Specifications

DC Output Voltage	+12V 4.5 A, Max
Mains Voltage	187-250V ~ 50Hz
Operating Temperature	-20°C + +50°C

DIN Rail Power Supply with Parallel Capability 14MM-UP413

Features and Benefits

- » Modular reception system power supply with parallel capability
- » Can be used in parallel for redundancy
- » Switch mode technology
- » Short circuit protected
- » DIN rail mounting
- » Screw terminal block for DC output power distribution bus



14MM-UP413 Specifications

Input Voltage	187-250V 50/60Hz
Output Voltage	12V 4.5 A max.
Power Consumption	65 W max.
Power Consumption	<245W
Operating Temperature	0°- +50°C

TERRA Power Supply for Self Monitoring 20MM-UP412

Features and Benefits

- » Modular reception system power supply with parallel capability and self monitoring via LAN
- » Can be used in parallel for redundancy
- » Switch mode technology
- » Short circuit protected
- » Screw terminal block for DC output power distribution bus
- » Din rail mounting



Headend Equipment

19" System Rack Mountable

14MM-MR19-420

Features and Benefits

- » AT series 19" rack mount solution offers total flexibility for your headend needs
- » Coated steel to minimise corrosion
- » All items to mount directly into 19" rack
- » Capacity for several modules
- » Recessed for racking system permitting rack door closure



Rail for Wall Mounting

14MM-MR420

Features and Benefits

- » Multi-channel headend mounting rail only, used for modular system as wall attachment
- » AT series 19" rack mount solution offers total flexibility for your headend needs
- » Coated steel to minimise corrosion
- » Affix directly to a wall for easy installation
- » Capacity for up to several modules



Female to Female Quick Coaxial Bridge, 36mm

14MM-CB420

Features and Benefits

- » Coaxial bridge designed specifically for the AT series modules
- » Excellent RF shielding
- » Industry standard F connector
- » Rigid solid material
- » Used to daisy chain modules



RF Bridge for Multichannel Modules, 48.5mm

(14MM-MDX420/AT440)

14MM-CB420L

Features and Benefits

- » Coaxial bridge designed specifically for the AT series modules
- » Excellent RF shielding
- » Industry standard F connector
- » Rigid solid material
- » Used to daisy chain modules



Replacement DC Distribution Cable for up to 4 Modules

14MM-DC420

Features and Benefits

- » Allows a single DC power source to be shared by multiple headend modules
- » 36mm spacing between connection points



Headend Equipment

WISI OH Series Base Unit with Web Based GUI License included (OH51)

14MM-OH50A-KIT

Features and Benefits

- » Integrated FM amplifier, high output power
- » Analog and digital channel processing headends
- » Capacity for 14 modules, 19"- rack-mounting or wall mounting (14 analog or 28 digital channels)
- » Programmable via USB stick, OH41 hand controller or WEB interface
- » Full remote access (modem switch not supplied)
- » LAN RJ45 industry standard connector



Twin OH Modulator for Analogue 14MM-OH38

Features and Benefits

- » Modulation of 2 AV signals to 2 analog TV channels multi-standard operation
- » Interface for audio/video with BNC/Cinch
- » Stereo capable vestigial sideband modulator

14MM-OH38 Specifications

Video Input Level	1 V ± 0.4 V
Video Input Bandwidth	20Hz - 5MHz
Audio Input Impedance	600 / 10 k Ohm
Audio Input Level (for nom. deviation)	- 4dBm / 1 kHz
Audio Level Range	- 9dB - +5dB
Audio Input Bandwidth	40-15000 Hz
Output Impedance	75Ohm
Output Frequency Range	45-862MHz
Frequency Steps	250kHz
Stability of Output Frequency	± 30kHz
Output Channel Bandwidth	2 x 7/8 MHz
Output Level	(1 dB steps) ± 1 dB
TV Standards	B/G, D/K, I, L
Audio Format	Mono, Stereo, Dual
S/N Video (CCIR-rec. 567-1)	>58dB
S/N Audio	>50dB
Stability of Output Level	±1dB
Spurious Inside TV Channel	>55dB
Spurious Outside TV Channel	>55dB
Power Consumption	<8W
Operating Temperature	-20° - +55°C



Headend Equipment

RF Converter 14MM-OH45

Features and Benefits

- » Channel processor convertor used for processing signals, not suitable where channel conversion requires 34>MER
- » Mount into OH50A with full remote control via the LAN web interface
- » Low profile blade fully shielded
- » Input connector industry standard F connector
- » All data and power connection at the rear of the board removing cumbersome cables
- » AGC control over a wide signal input range



14MM-OH45 Specifications

Input Frequency Range	45-862MHz
Input Frequency Steps	250kHz
Input Channel Bandwidth	7/8MHz
Input Level Range	50-90dBμV
AGC Range	≥ 40dB
Output Frequency Range	45-862MHz
Frequency Steps	250kHz
Output Channel Bandwidth	7/8MHz
Output Level	(1dB steps) 95-105dBμV
Group Delay (-0.5-4.43 MHz)	<80ns
S/N Audio	>50dB
Stability of Output Level	± 1dB
Spurious Outside TV Channel	>55dB
Connectors RF	F-connector
Current Consumption	0.5 A/12 V
Power Consumption	< 10 W
Operating Temperature	-20 ° - +55 °C

Transmodulator COFDM to PAL 14MM-OH79D

Features and Benefits

- » Reception of a DVB-T/C HD/SD signal and modulation to an analogue TV channel
- » Reception and decryption of MPEG2 and MPEG4 signals
- » Dolby digital decoding
- » CI interface
- » NICAM encoder
- » Easy to configure compact headend



14MM-OH79D Specifications

Input Frequency Range	110-878MHz
Input Frequency Steps	0.250MHz
Input Level Range	47-90 dBμV
Output Channel Band Width	7/8 MHz
COFDM-Spectrum DVB-T	2 k/8 k/16 k/32 k FFT
COFDM Modulation Type	QPSK, 16QAM, 64QAM, 128QAM, 256QAM
COFDM Guard Interval	1/4, 1/8, 1/16, 1/32
Output Frequency Range	45-862MHz
Output Frequency Steps	250kHz
Frequency Stability	±30MHz
Output Channel Bandwidth (couplet)	7/8 MHz
Output Level	90-105dBμV (1dB steps)
Flatness	±1.5 dB
Spurious Suppression	>58
Video-Format	4:3/16:9/4:3 Zoom
F-socket Connectors	2 pcs.
Common Interface Connectors	1 pcs.
Power Consumption	10W
LNB Supply Voltage	12V
LNB electrical power supply	0.85A
Operating Temperature	-20° - +55 °C

Headend Equipment

TDT DVBS/S2 Twin Transmodulator 14MM-OH85H

Features and Benefits

- » Transmodulation from 8PSK/QPSK to QAM, with the inclusion of CI interfaces for descrambling the unit can deliver services transparently or through PID filtering selected QAM services
- » Twin DVBS/S2 to QAM 16-256 symbols
- » Integrated Conditional Access interface for both channels
- » Internal NIT generation available
- » PID filtering available
- » Input range 950-2150MHz DVBS/S2



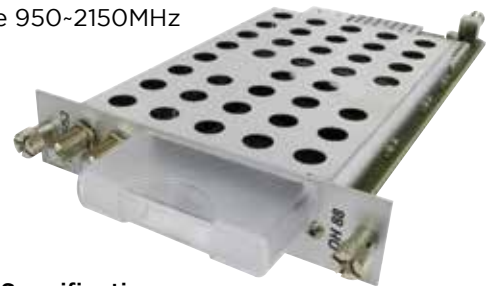
14MM-OH85H Specifications

Input Frequency Range	950-2150MHz
Input Frequency Steps	1MHz
Input Level Range	47-80dBμV
AFC	±10MHz
Modulation Scheme	QPSK, 8PSK
Symbol Rate	1-45 MS/s
FEC inner code	LDPC (1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10)
Spectral Inversion	C-Band/KU-Band
Output Frequency Range	45-862MHz
Output Frequency Steps	500kHz
Output Stability	±30kHz
Output Channel Bandwidth	2 x 8 MHz
Output Level	82-103dBμV
Stability of Output Level	±1dB
Spurious Outside TV Channel	>50dB
SNR	≥45dB
MER	≥40dB
Modulation (COFDM)	16-, 32-, 64-, 128-, 256-QAM
Symbol Rate	3.45-6.9 MS/s
FEC Outer Code	RS (204,188,16)
Spectral Inversion	Normal/Inverted
Interleaving	Conv., I=12
Bit Stuffing	Yes
PCR Correction	Yes
Connectors RF	F-connector
Current Consumption	ca. 0.83 A / 12 V
Power Consumption	< 10W
LNB Power	12 V / 0.5 A max., DiSEqC 2.0
Operating temperature	- 20 °- + 55 °C

TDT DVBS/SC to COFDM with CI Slot 14MM-OH88

Features and Benefits

- » Transmodulation from DVBS/S2 to DVBT/C, with the inclusion of CI interfaces for descrambling the unit can deliver services transparently or through PID filtering selected digital services
- » Integrated Conditional Access interface for both channels
- » Internal NIT generation available
- » PID filtering available
- » Input range 950-2150MHz DVBS/S2



14MM-OH88 Specifications

Input Frequency Range	950-2150MHz
Input Frequency Steps	1MHz
Input Level Range	47-80dBμV
AFC	±10MHz
Modulation Scheme	QPSK, 8PSK
Symbol Rate	1-45 MS/s
FEC inner code	LDPC (1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10)
Spectral Inversion	C-Band/KU-Band
Output Frequency Range	45-862MHz
Output Frequency Steps	250kHz
Output Stability	±30kHz
Output Channel Bandwidth	2 x 7/8 MHz 88-103 dBμV
Output Level	82-97dBμV
Stability of Output Level	±1dB
Spurious Outside TV Channel	>50dB
SNR	≥41dB
MER	≥37dB
Modulation (COFDM)	QPSK, 16-, 64-QAM
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Guard interval	1/4, 1/8, 1/16, 1/32
FFT Mode	2k, 8k
Bit Stuffing	Yes
PCR Correction	Yes
PID Filtering	Yes
NIT editing	Yes
Connectors RF	Yes
Current Consumption	ca. 0.83 A / 12 V
Power Consumption	< 10W
LNB Power	12 V / 0.5 A max., DiSEqC 2.0
Operating temperature	- 20 °- + 55 °C

*Operating temperature software control



Headend Equipment

Transmodulator Twin DVBT/C to COFDM 14MM-OH89

Features and Benefits

- » Transmodulation from DVBT/C to DVBT/C, with the inclusion of CI interfaces for descrambling the unit can deliver services transparently or through PID filtering selected digital services
- » Regeneration of the DVBT services to a DVBT- COFDM signal, transparent or select services with PID filtering
- » Integrated conditional access interface for both channels
- » Internal NIT generation available
- » PID filtering available



14MM-OH89 Specifications

Input Frequency Range	110-878MHz
Input Frequency Steps	250kHz
Input Level Range	47-90dBμV
Channel Bandwidth	7/8MHz
COFDM Spectral	2 k and 8 k FFT
COFDM Modulation Scheme	QPSK, 16-QAM, 64-QAM
COFDM Guard Interval	1/32, 1/16, 1/8, 1/4
COFDM FEC Inner Code	Conv., K=7, G=1/2, 2/3, 3/4, 4/5, 5/6, 7/8
QAM Modulation Scheme	16-, 32-, 64-, 128-, 256-QAM
QAM Symbol Rate	1-7 MBaud
Output Frequency Range	47-862MHz
Output Frequency Steps	250kHz
Output Stability	±30kHz
Output Channel Bandwidth (bonded)	2 x 7/8 MHz
Output Level	82-97dBμV
Stability of Output Level	±1dB
Spurious Outside TV Channel	>50dB
SNR	≥41dB
MER	≥37dB
Modulation (COFDM)	QPSK, 16-, 64-QAM
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval	1/4, 1/8, 1/16, 1/32
FFT Mode	2k, 8k
Bit Stuffing	Yes
PCR Correction	Yes
PID Filtering	Yes
NIT Editing	Yes
Connectors RF	F-connector
Current Consumption	0.5 A / 12 V
Power Consumption	< 10W

19" 8-Card Rack plus Power Supply 14MM-UC380

Features and Benefits

- » For DVB-S, DVB-T signal reception and video audio modulation to RF
- » Integrated DC & data distribution bus, RF output amplifier and power supply
- » Available in VSB or DSB modules with mono and A2 stereo
- » RF output amplifier for high level output 102dBμV
- » TS distribution bus. Up to 7 slave modules can be connected to a single "master" module optional embedded USB interface



Channel Converter Single Digital Output 470-862MHz 14MM-CT311U

Features and Benefits

- » Double conversion technology
- » High selectivity determined by double SAW filters
- » AGC system at input
- » Input signal level and P/S carriers ratio measurement
- » Low level harmonics and intermodulation products
- » Input RF loop through



Headend Equipment

QPSK-COFDM Transmodulator 14MM-TDX311

QPSK-COFDM Transmodulator with CI Slot 14MM-TDX311C

Features and Benefits

- » Converting of DVB-S/S2 8PSK/QPSK modulated SAT IF signal into COFDM/QAM modulated DVB-T/DVB-C RF channel
- » TS processing: EPG multiplexing, PCR restamping, service filtering, PSI/SI regeneration, NIT generation, PMT version monitoring
- » Connectors: MPEG2 TS output, RF input & output - type F



14MM-TDX311/14MM-TDX311C Specifications

RF Input	
Frequency Range*	950-2150MHz
Level/Impedance	45-85dBμV/75 Ohm
Modulation	QPSK, 8PSK (DVB-S/S2)
Symbol Rate*	1 ÷ 45 MS/s
LNB Powering/Control*	0/18 V 400 mA max.
Loop Through Frequency Range/Gain	950-2150 MHz/2 dB
RF Output	
Frequency Range*	110-860MHz
Level/Impedance	90dBμV/75 Ohm
Output C/N	≥50dB
MER	≥35dB
Modulation*	QPSK, QAM16, QAM64
Channel Bandwidth*	7/8dB
Guard Interval*	1/4, 1/8, 1/16, 1/32
Code Rate*	1/2, 2/3, 3/4, 5/6, 7/8
Transmission Mode	2K
Symbol Rate*	-
Output Level Adjustment Range*	0 ÷ 15.5 dB by 0.5dB step
Current Consumption	5.5 V 1.7 A
Operating Temperature Range	0° - + 50°C
Dimensions	47.5 x 117 x 220.5mm

FM Amplifier 14MM-AF310B

Features and Benefits

- » 30dB
- » 40dB gain
- » Gain control
- » Sharp filtering



MPEG2 Encoder 3 x AV Input 14MM-MD331

Features and Benefits

- » Three composite video and three stereo audio input
- » Three individual MPEG2 TS outputs
- » MPEG2 TS PID control
- » Parameters control via CMH data bus extension port
- » Connectors: 3-channel video/audio input - 15-pin Sub-D socket on the bottom side three MPEG2 TS Outputs: TS1, TS2 and TS3 on the front panel
- » Programmable audio and video compression bit rates



Modulator Single VSB Analogue Stereo 14MM-MT310C

Features and Benefits

- » VSB Modulator for MMH3000 & Stereo Audio
- » Composite video



Headend Equipment

DVB-T Modulator 6 Input 14MM-TRX360

Features and Benefits

- » Multiplexing up to 6 transport streams and converting into COFDM modulated DVB-T RF channel
- » TS processing: EPG multiplexing, PCR restamping, Server filtering, PSI/SI regeneration, NIT generation
- » Connectors: 6xMPEG TS inputs, MPEG2 TS Output (multiplexed)
- » Output MER >35dB
- » Output C/N >35



MPEG2-PAL Transmodulator VSB 14MM-DM313C

Features and Benefits

- » Single MPEG2 to RF
- » Output 110-862Mhz
- » Slave to RD313C VSB



8/QPSK-PAL Transmodulator VSB 14MM-RD315C

Features and Benefits

- » Single Sat Receiver to RF
- » Output 110-862MHz
- » Master to DM31 VSB



Programmer Hand Control Unit 14MM-PC100

Features and Benefits

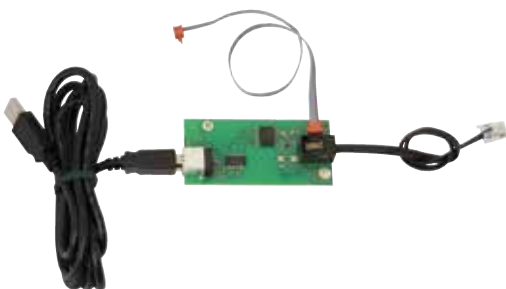
- » For programming up to 16 modules in 2 sub racks for MMH3000 headends
- » Connection to the data bus through connector, placed on the base unit
- » 2 line, 16 characters LCD display with back light



Programmer USB Data Bus for PC includes SW, Hardwired to Rack 14MM-UD101

Features and Benefits

- » Hardwired headend control via USB port of the PC
- » Mounted inside of the base unit UC380
- » Supplied with program TERRA Link



Programmer USB Data Bus Adaptor for PC includes SW 14MM-UD104

Features and Benefits

- » MMH3000 headends PC control adaptor
- » Supplied with program TERRA Link

