



Compact modular headend CMH3000

Main system features

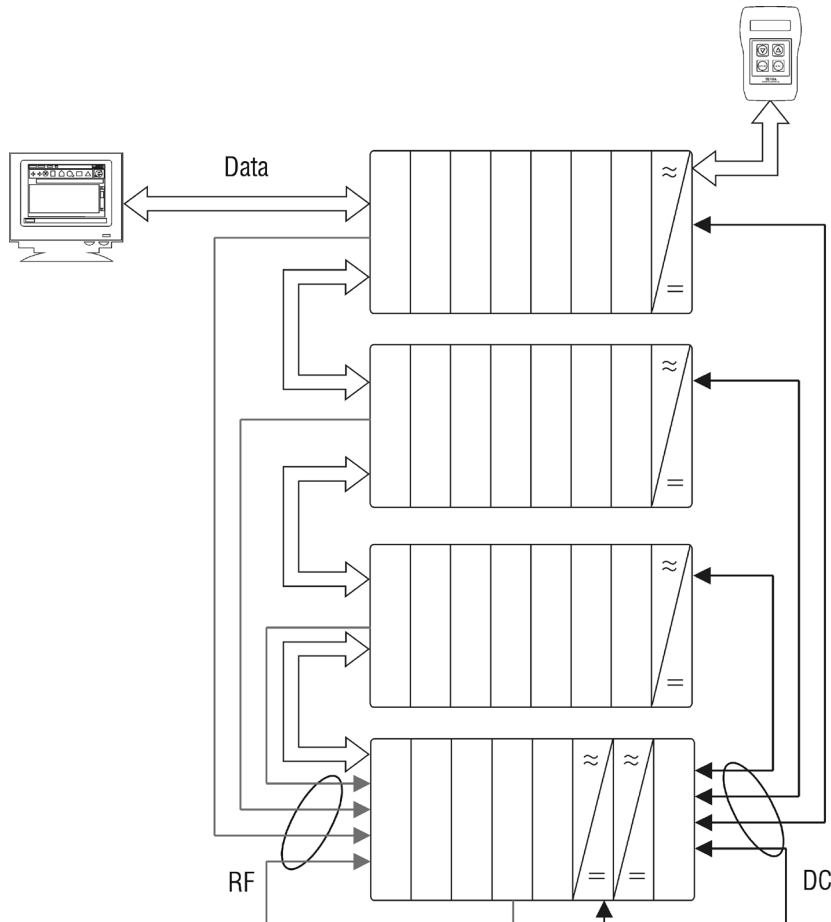
- all parameters of the modules are controlled by programming via CMH data bus
- local or remote control/monitoring system using PC
- extended self-diagnostic
- open architecture system for easy integration of new components
- headend powering redundancy
- possibility of hot installing/replacing modules
- possibility to “clone” headend’s settings from the saved configuration file



The technical platform

The basic unit of CMH3000 headend is 19" width 6U subrack.

One subrack has 8 identical slots for 8 modules. Data and DC distributing, RF combining and RF input signal feeding of each module is realized through passive bus bar. Input RF signal distribution panel and rear mount output amplifier can be installed optionally.





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Data communication

Up to 16 subracks can be connected to single USB port of PC. Hand held control unit can also be used for programming up to 16 modules in 2 subracks (connection on the front panel of power supply unit).

DC distribution

Modern concept of single relatively high voltage DC power distribution is chosen. It allows to make easily reliable power redundancy system of the headend.

Power supply connection in parallel or N+1 redundancy is available. All DC powering elements are based on high effective switch mode technology.

RF combining

8 way RF combiner is incorporated in every subrack. There is possible further combining by system RF combiners and amplification by modular broadband high linearity amplifier. In case of large installation, RF level of subracks can be increased by buffer drive amplifier for proper operation of system combiner.

RF input feeding

Optional input distribution panel can be connected to bus bar easily. It allows to make elegant implementation of individual input signal feeding needs. Also standard versions of distribution panel for N+1 redundancy and other typical installations are available.

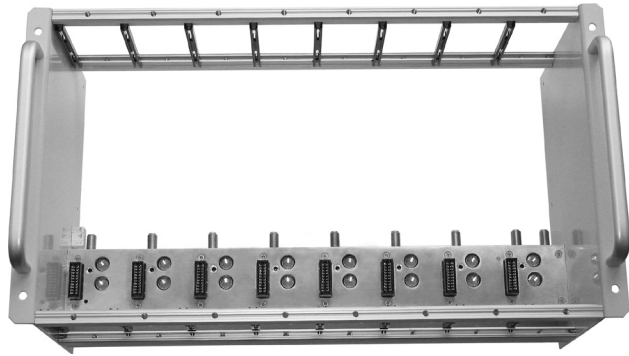
Technical specifications

T Y P E		CMH3000
Input		
Frequency range	terrestrial TV	47-862 MHz
	radio FM	87.5-108 MHz
	satellite TV	900-2150 MHz
	return path	5-30 MHz, 5-55 MHz, 5-65 MHz
Video/Audio		
Audio	frequency range	20 Hz - 15 kHz
	level	775 mV
Video	frequency range	20 Hz - 6 MHz
	level/impedance	1 Vp-p/75 Ω
RF		
Frequency range		47-862 MHz
Level		98 dBμV
S/N, weighted		58 dB
Spurious attenuation		60 dB
Return loss, output		14 dB/40 MHz - 1.5 dB/octave
General		
Supply voltage		187-250 V~ AC
Mains line frequency		50 Hz
EMC compatibility		EN50083-2
Operating temperature		0 ÷ +50 °C
PC connection		USB port

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Base unit

- 6U height 19" width subrack for up to 8 modules installation; internal DC & data distribution bus and output RF combiner
- input distribution blocks DP180, DP181 and rear mount output amplifier can be integrated optionally
- DC and data bus extension ports
- possibility to supply DC from centralised PS
- two base units could be interconnected for redundancy by DC powering
- built-in switcher for setting of virtual address



Technical specifications

T Y P E		UC180
Ordering number		11824
RF inputs	frequency range	5 - 2500 MHz
	insertion loss	≤ 0.75 dB
RF combiner	frequency range	47-862 MHz
	insertion loss	≤ 18 ± 1.5 dB
Powering	voltage	DC 23-26 V
	total current	6 A max.
	for external equipment	1 A max.
Mechanical	width	489 mm
	height	267 mm
	mounting depth	180 mm
	weight (packed)	3.6 kg