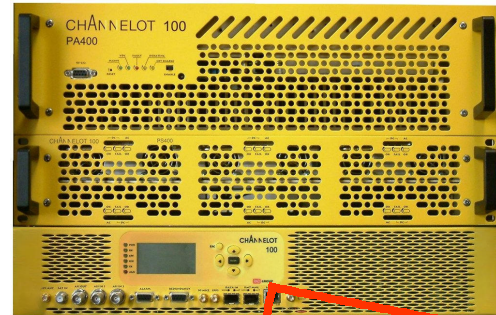


Channelot 101-400



360W CMMB Micro-Transmission Station

- Low cost, fully integrated 360W transmitter site solution in 7U of rack space
- Adds an adaptively pre-corrected 360W high-power amplifier (HPA) to the Channelot 101 base unit
- Provides the same comprehensive functionality as the Channelot 101 transmission station
- Fully managed through a single, consistent interface



Now with adaptive HPA pre-correction

Channelot 101-400 is a 360-Watt output-power version of the Channelot 101 CMMB Micro-Transmission Station. With a footprint of 7U of rack space, it increases Channelot 101 output power while providing the same functionality at similarly unmatched integration level and cost effectiveness.

Function

The Channelot 101-400 CMMB Micro-Transmission Station comprises the following modules:

- A Channelot 101 base unit, providing all the functionality of the base-line Channelot 101 product
- A Channelot 101 PA400 adaptively pre-corrected 360-Watt high-power amplifier (HPA)
- A Channelot 101 PS400 power supply

Features and Benefits

Channelot 101-400 provides the same comprehensive functionality as the Channelot 101 base configuration:

- A satellite receiver and various wire-line telecom interfaces for terminating the content distribution network
- A professional GPS receiver for SFN network synchronization

- A transport stream demultiplexer for content grooming
- A full-featured CMMB MFN and SFN modulator
- Carrier-grade remote management and control

To the above, Channelot 101-400 adds compact and highly efficient power supply and HPA modules to provide 360W of output power. The HPA is adaptively pre-corrected by the Channelot 101 base unit for superior signal integrity performance, and the complete transmission station fits within 7 Rack Units of 19" rack space.

Channelot 101-400 is fully manageable in a completely integrated manner: the operator is presented with a single, consistent and fully functional local and remote management interface, eliminating integration efforts and greatly streamlining operations.

Channelot 101-400 can be ordered in a redundant configuration that supports 1:1 hot redundancy of either the baseline Channelot 101 unit or the full transmitter.



Specifications

Satellite Receiver

IF frequency	950-2150 MHz
Signal format	DVB-S2, DVB-S
Modulation and coding	All QPSK and 8-PSK options
Bit rate	4 – 90 Mbps

Telecom Interface

Protocol	MPEG over UDP or RTP
Physical	100/1000 Ethernet over UTP 100/1000 Ethernet over fiber 1000 Ethernet over SDH Bridged Ethernet over E3/T3

ASI Input Interface

Two ASI interfaces per EN 50083-9 Annex B.

GPS Receiver

Receiver	12 channels
Antenna power	5V, 30 mA DC

Modulator

Format	CMMB
Modulation	BPSK, QPSK, 16QAM
Bit interleaver	384 x 360
LDPC code rate	1/2, 3/4
Byte interleaver	Mode 1, 2, 3
Reed-Solomon code rate	(240,240), (240,224), (240,192), (240,176)
MFN operation	Including rate adaptation
SFN operation	Full signaling processing and synchronization

RF Output

Frequency range	470 – 862 MHz
Channel bandwidth	8 MHz
Pre-correction	Linear Adaptive non-linear
Mask	-38 dB @ 4.2 MHz offset
MER	35 dB
Output power	360W

Auxiliary Interfaces

Summary alarm	Dry contacts
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Management

Interface	100Base-T Ethernet or WAN
Protocol	Web (HTTP) and SNMP
Configuration	Manageable remotely; non-volatile memory-resident with back-up copy
Status	Readable remotely
Event notification	Web display and SNMP Traps
Software update	Remotely upgradeable in the field, with a built-in back-up copy

Power

Supply rail	100 – 240V AC
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CHANNELOT

24 Raoul Wallenberg St., Tel Aviv 69719, Israel
Tel. +972-3-769-8508 Fax +972-3-769-8510
info@channelot.com, www.channelot.com

 RAD Group