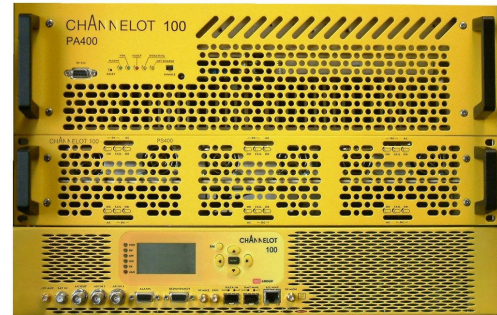


Channelot 100-400



360W DVB-T/H 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 100 base unit
- Provides the same comprehensive functionality as the Channelot 100 transmission station
- Fully managed through a single, consistent interface



Now with adaptive
HPA pre-correction

Channelot 100-400 is a 360 Watt output-power version of the Channelot 100 DVB-T/H Micro-Transmission Station. With a footprint of 7U of rack space, it increases Channelot 100 output power while providing the same functionality at similarly unmatched integration level and cost-effectiveness.

Function

The Channelot 100-400 DVB-T/H Micro-Transmission Station comprises the following modules:

- A Channelot 100 base unit, providing all the functionality of the base-line Channelot 100 product
- A Channelot 100 PA400 adaptively pre-corrected 360-Watt high-power amplifier (HPA)
- A Channelot 100 PS400 power supply

Features and Benefits

Channelot 100-400 provides the same comprehensive functionality as the Channelot 100 base configuration:

- Satellite receiver and various wired telecom interfaces for terminating the distribution network

- Professional GPS receiver for SFN network synchronization
- Transport stream demultiplexer for content grooming
- Full-featured DVB-T/DVB-H MFN and SFN modulator
- Carrier-grade remote management and control

To the above, Channelot 100-400 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 100 base unit for superior signal integrity performance, and the complete transmission station fits within 7 Rack Units of 19" rack space.

Channelot 100-400 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 100-400 can be ordered in a redundant configuration that supports 1:1 hot redundancy of either the baseline Channelot 100 unit or the full transmitter.



Specifications

Satellite Receiver

IF frequency	950-2150 MHz
Signal format	DVB-S2, DVB-S
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
FEC	Pro-MPEG CoP 3

ASI Input Interface

Two ASI interfaces per EN 50083-9 Annex B, with auto-switchover

GPS Receiver

Receiver	12 channels
Antenna power	5V, 30 mA DC

Modulator

Format	DVB-T, DVB-H
FFT size	2K, 4K, 8K
Guard interval	1/32, 1/16, 1/8, 1/4
Modulation	QPSK, 16QAM, 64QAM
Convolutional code rate	1/2, 2/3, 3/4, 5/6, 7/8
Hierarchical modulation	$\alpha = 1, 2, 4$
Inner interleaver	Native or In-depth
TPS signaling	DVB-T or DVB-H
MFN operation	Rate adaptation PCR re-stamping
SFN operation	MIP processing GPS synchronization

RF Output

Frequency range	470 – 862 MHz
Channel bandwidth	5, 6, 7, 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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