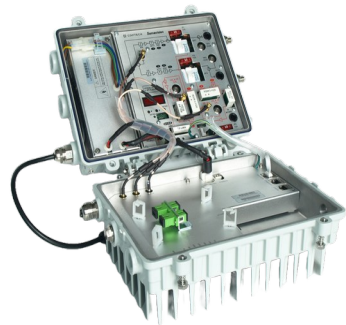


STRATUM CorX RMS1-12 1x2 SEGMENTABLE R-MACPHY OPTICAL NODE



- Node for Distributed Access Architecture networks
- Downstream frequency range up to 1218 MHz
- Upstream frequency range up to 204 MHz
- Optional connection to Monitoring System
- GaN output stage
- Ingress management by the RSW module

GENERAL DESCRIPTION

The STRATUM CorX RMS1-12 is a cost-efficient Remote-MACPHY node designed to deliver exceptional performance through support for 1 DS and 2 US segments, making it ideal for modern broadband expansion. Built in a durable die cast housing, it ensures long-term reliability even in demanding environments while its integrated electronic management interface enables full control of both transmission directions. With the optional ingress control switch, operators gain enhanced signal integrity and proactive noise management. Leveraging the advantages of Remote-MACPHY technology — such as reduced latency, improved network efficiency, and scalable architecture — the CorX RMS1-12 empowers service providers to future-proof their access networks with confidence and operational ease.

TECHNICAL SPECIFICATIONS

R-MACPHY parameters ⁽¹⁾

DS DOCSIS 3.0 (SC-QAM) channel number	96
DS DOCSIS 3.1 (192 MHz OFDM) channel number	4
US DOCSIS 3.0 (SC-QAM) channel number	16
US DOCSIS 3.1 (96 MHz OFDMA) channel number	2
CCAP port	10 GE SFP+ transceiver

Forward path RF parameters

Frequency range [MHz]	85...1218
Equalizer breakpoint frequency [MHz]	1218
RF attenuator range [dB]	0...20 ⁽²⁾
RF equaliser range [dB]	6...22 ⁽²⁾
Flatness [dB]	±0.75
Output return loss (40MHz -1.5dB/octave) [dB]	>18
Maximum output RF level @ 1218 MHz [dBμV]	116 ⁽³⁾
Total composite power [dBmV]	72
Output RF testpoint attenuation [dB]	20±1

Specifications are subject to change without notice!

Reverse path RF parameters

Frequency range [MHz]	5...204
Diplex filter [MHz]	65/85, 85/105, 204/258
RF input level [dBμV]	47...83 ⁽⁴⁾
RF attenuator range [dB]	0...20 ⁽²⁾
Flatness [dB]	±0.5
Input return loss (40MHz -1.5dB/octave) [dB]	>18
Reverse path RF testpoint attenuation referred to the RPD input [dB]	0
Ingress control switch (RSW) states	0 dB / -6 dB / -50 dB / HPF 20 MHz

General parameters

CX-RMS1-12-DC-L **CX-RMS1-12-DC-R**

RF connector	5/8"
Testpoint connector	F-type
Power supply voltage [VAC]	230±15% ~ 30...65; □ 35...90
Power consumption [W]	116 ⁽⁵⁾
Maximum current feed-through [A]	10
Hum modulation [dB]	70
Screening factor [dB]	80
Degree of protection	IP67
Temperature range [°C]	-20...+55
Dimensions [mm]	265x195x129
Weight [kg]	6.2

(1) For more details check the Sumavision CC8800-E-X1 RMD datasheet

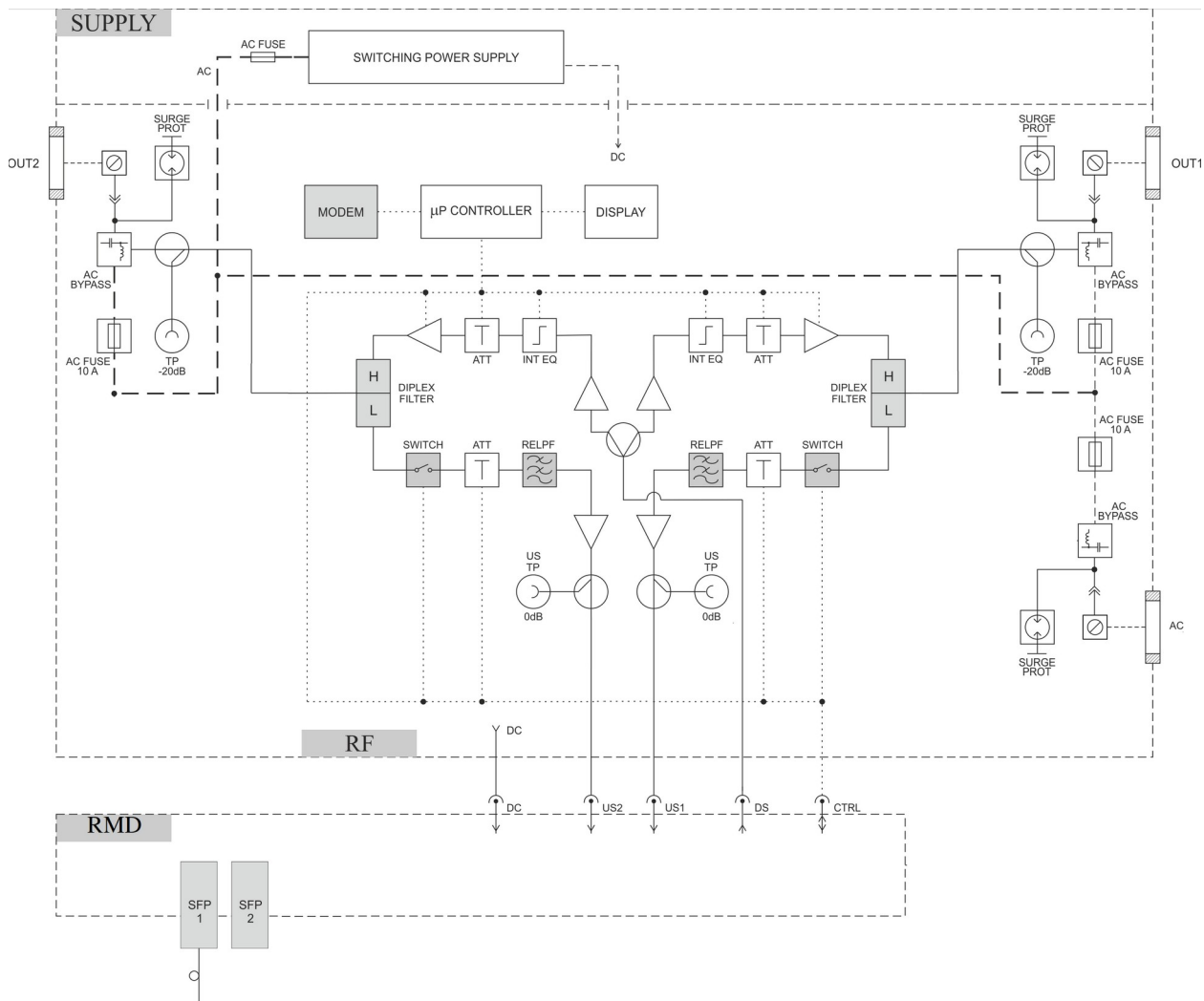
(2) Adjustable in 0.5 dB steps

(3) Full spectrum with 12 dB tilt between 258 MHz and 1218 MHz at a PreBER of <10⁻⁹, the high current mode is activated

(4) The level of a single SC-QAM channel of 6.4 MHz

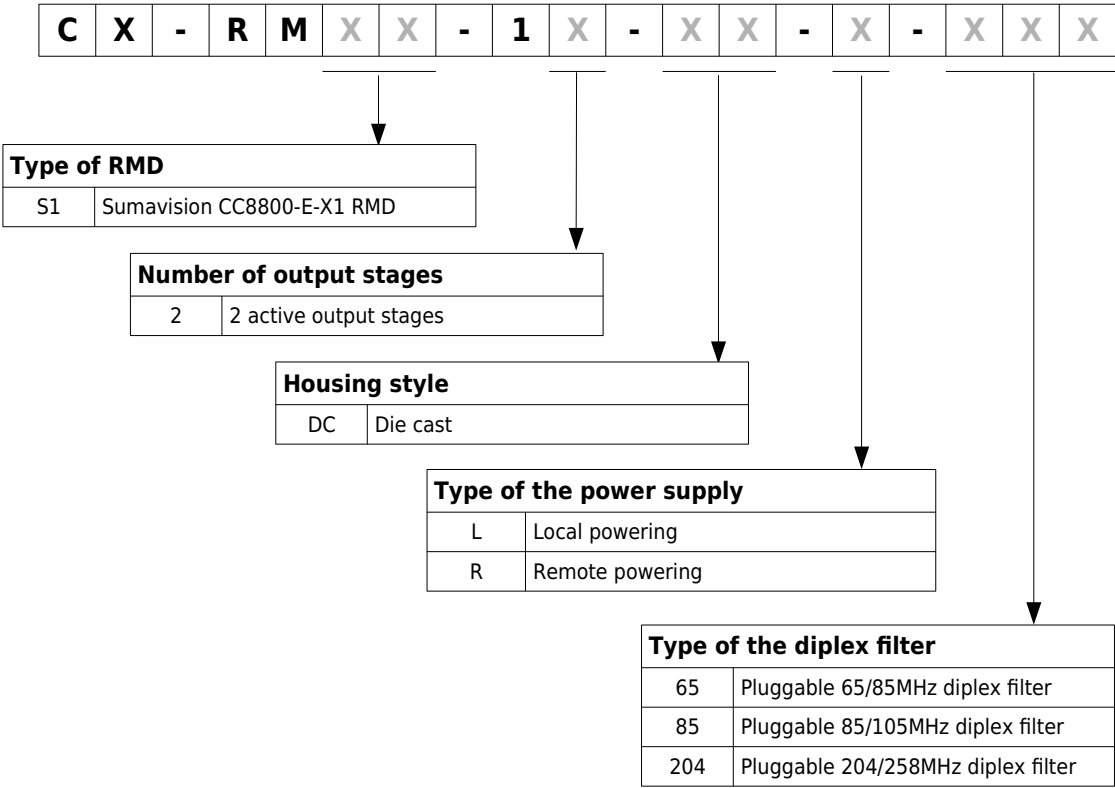
(5) The values contain the power consumption of one SFP module.

BLOCK DIAGRAM



Specifications are subject to change without notice!

ORDERING INFORMATION



Option	Required modules	Ordering codes
Monitoring options	1pc NMT-EL, 2pcs RSW3-H20	NMT-EL, RSW3-H20

Specifications are subject to change without notice!