

STRATUM CorX RPH1 BK2000 STYLE R-PHY 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
- Ingress management by the RSW stages
- PON OLT functionality

GENERAL DESCRIPTION

The STRATUM CorX RPH1-11-BK allows to utilize the advantages of the Harmonic Pebble-1 based DAA technology in the BK environment widely used in Germany. In order to ensure the best power efficiency and the lowest spatial need, the device contains also an AB amplifier and a 5-way upstream RF combiner with 3-state ingress control switches. The device can be delivered optionally with an HMS transponder, the functionalities beyond the RPD, such the actual ICS states, temperature or powering voltages can be managed via this unit.

TECHNICAL SPECIFICATIONS

R-PHY parameters ⁽¹⁾

DS DOCSIS 3.0 (SC-QAM) channel number	158
DS DOCSIS 3.1 (192 MHz OFDM) channel number	6
US DOCSIS 3.0 (SC-QAM) channel number	2 x 12
US DOCSIS 3.1 (96 MHz OFDMA) channel number	2 x 2
OOB	SCTE 55-1, SCTE 55-2
CCAP port	10 GbE SFP transceiver

Forward path RF parameters

Frequency range [MHz]	47...1218
Gain related to the RPD output at AB and C ports @ 1218 MHz [dB]	-1
Nominal slope on the AB and C ports [dB]	8
Gain related to the RPD output at DAT port [dB]	-18
Gain related to the RPD output at DS port [dB]	-31
Return loss [dB]	>16
Flatness [dB]	±0.5
RF output testpoint related to the AB and C ports [dB]	-20±0.5

Reverse path RF parameters

Frequency range [MHz]	5...204
Gain up to the RPD input from the US IN1...US IN6 ports [dB]	-13
Return loss [dB]	>16
Flatness [dB]	±0.5
US OUT RF output testpoint related to US IN2...US IN6 ports [dB]	0±0.5

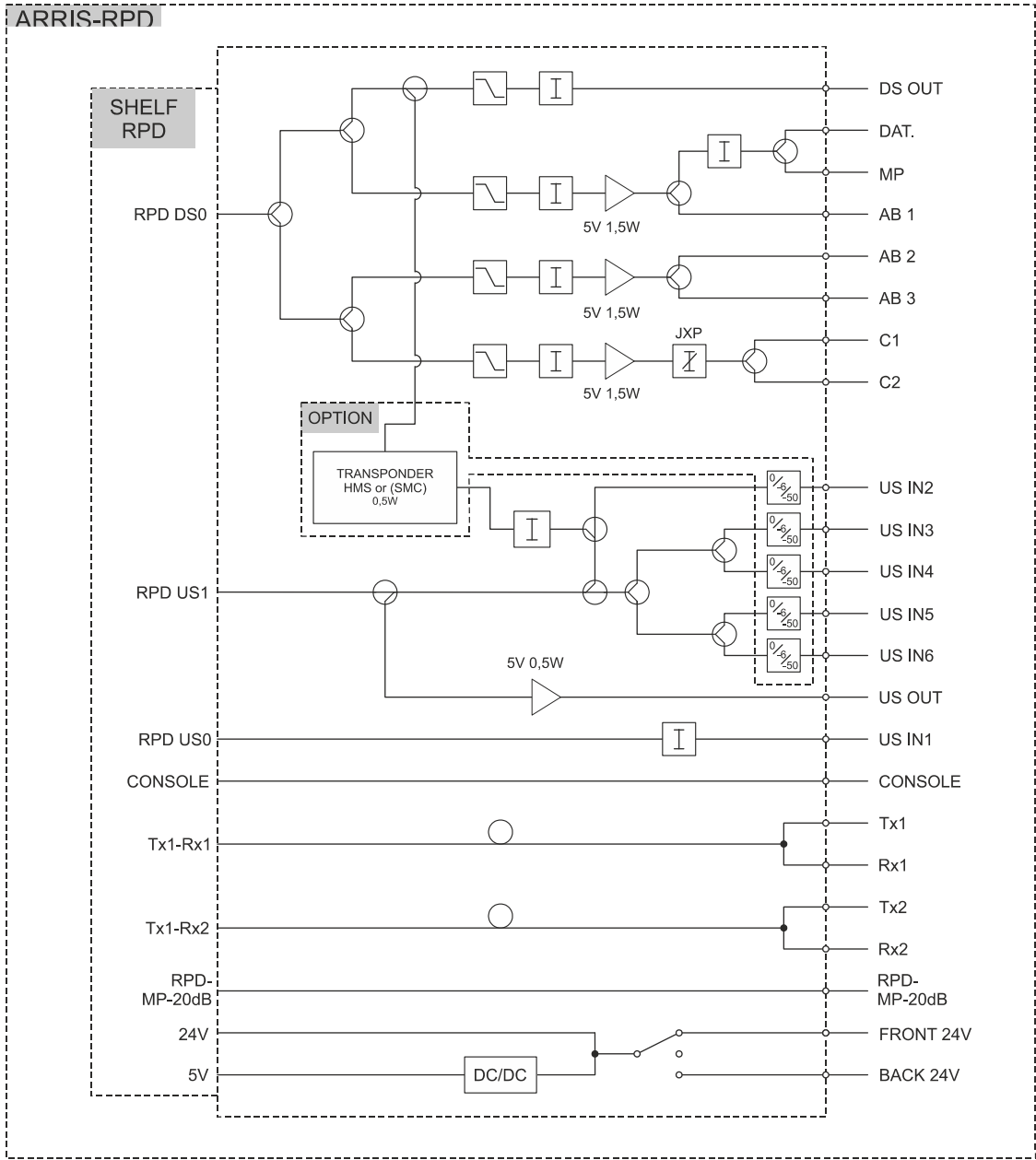
Specifications are subject to change without notice!

General parameters

RF connector	IEC
Power consumption [W]	36 ⁽²⁾
Operational temperature range [°C]	-20...+65 ⁽³⁾
Dimensions [mm]	250x160x135
Weight [kg]	3.9

(1) For more details check the Harmonic CableOS Pebble-1 datasheet
(2) 1 SFP module is mounted, communication active, 25°C environmental temperature
(3) Environmental temperature of the closed BK amplifier housing

BLOCK DIAGRAM



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ORDERING INFORMATION

C	X	-	R	P	X	X	-	1	X	-	X	X	-	X	X	X
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Type of RPD	
H1	Harmonic Pebble-1 RPD

Upstream configuration of the RPD	
1	Single (1 US segment)

Housing style	
BK	BK-system

Monitoring	
blank	Without transponder
NMT	With transponder

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