

MBP-200SX-S1/ 200SX-S4/ 202SX-S1 Datasheet

1. Specifications

Basic specifications

Temperature	0°C to 40°C
Humidity	20% to 80% (no condensation)
Power	100 V to 240 V AC \pm 10% 50/60 Hz
Consumption	160 VA (158 W) at 100 - 120 V AC 176 VA (153 W) at 220 - 240 V AC:
Dimensions	430 (W) x 44 (H) x 500 (D) mm, EIA 1RU 480 (W) (with rack mount brackets)
Weight	9 kg
Consumables (at 24-hour operation)	Cooling fan: Replace every 3 years Power supply unit: Replace every 5 years Battery: Replace every 5 years

* Yearly battery replacement is recommended when the device is stored without powering on for long periods.

Technical specifications

Video formats	Input: HD-SDI: 1080/59.94i, 50i, 720/59.94p, 50p Output: HD-SDI: 1080/59.94i, 50i, 720/59.94p, 50p
MXF	XDCAM HD: 25 Mbps (CBR), 35 Mbps (VBR) XDCAM HD422: 50 Mbps (CBR)
Video input	HD-SDI: 1.5 Gbps, 75 Ω , BNC x 4 * MBP-200SX-S1/MBP-200SX-S4 can process 1 input signal and MBP-202SX-S1 can process 2 input signals at the same time from 4 inputs.
Video output	HD-SDI: 1.5Gbps, 75 Ω , BNC x 4
MBP-200SX-S1 MBP-200SX-S4	Select from Playback, TC Super or Record through. Default setting: 1 (Playback), 2 (TC Super), 3 (Playback), 4 (TC Super)
MBP-202SX-S1	Select from Playback, TC Super or Record through for each Default setting: 1 (System 1 - Playback), 2 (System 1 - TC Super), 3 (System 2 - Playback), 4 (System 2 - TC Super)
Genlock input	BB: 0.429 Vp-p (NTSC) or Tri-level Sync: 0.6 Vp-p 75 Ω BNC x 2 (with pass-through)
Audio input	(Maximum channel number and Quantization bit varies depending on the MXF format.)
Embedded	Max. 8 ch (Stereo 4 groups Group 1 and 2), 16/20/24-bit, 48 kHz
AES	1.0V (p-p) unbalanced 75 Ω BNC x 2 (Stereo 2 groups) Sampling frequency: 48 kHz Quantization bit: 16/20/24-bit (Synchronized with input SDI)

Audio output	(Maximum channel number and Quantization bit varies depending on the MXF format.)
Embedded	Max. 8 ch (Stereo 4 groups, Group 1 and 2), 16/20/24-bit, 48 kHz
AES	1.0 Vp-p unbalanced 75Ω BNC x 2 (Stereo 2 groups) Sampling frequency: 48 kHz Quantization bit: 16/20/24-bit (Synchronized with output SDI)
Timecode input	
Embedded	SMPTE RP188 ATC (VITC or LTC)
LTC	1.0 Vp-p, unbalanced, BNC x 1 * Input or output selectable using software.
Timecode output	
Embedded	SMPTE RP188 ATC (VITC or LTC)
LTC	1.0 Vp-p, unbalanced, BNC x 2 * Input or output selectable using software.
System area	80GB SSD Windows 10 IoT
Data recording area	
MBP-200SX-S1	940GB (480 GB SSD x2 RAID0) * XDCAM HD422 50Mbps recording: Up to approximate 34 hours
MBP-202SX-S1	940GB (480 GB SSD x2 RAID0) * XDCAM HD422 50Mbps recording: Up to approximate 34 hours
MBP-202SX-S4	3840GB (1920 GB SSD x2 RAID0) * XDCAM HD422 50Mbps recording: Up to approximate 133 hours
Interface	
REMOTE1-4	9 pin D-sub (male) x 4, RS-422 VTR protocol (Connect with the supplied four-branch cable.)
USB1-4	USB 3.0 Type-A x 4 (Front: 2, Rear: 2)
LAN1/LAN2	100BASE-TX/1000BASE-T, RJ-45 x 2
DVI-I	DVI-I x 1 (1280 x 1024)
ALARM	9 pin D-sub (female) x 1 ALARM: Power and Fan alarm (Contact output)
GPIO1-10	25 pin D-sub (female) x 1 GPIO: 10 inputs/ 10 outputs (Optocoupler isolation input, optocoupler isolation open collector output)

Options

MCS-MBPPRN	Simultaneous recording and playback software for MBP-200SX
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Accessories

AC cord, EIA rack mount brackets, Rubber feet, DVI to VGA converter connector, Four-branch cable for REMOTE, CD-ROM, and packing list.

2. External Dimensions

(All dimensions in mm.)

