

## MFR-4000R Datasheet

### 1. Specifications

#### Basic specifications

Temperature	0°C to 40°C
Humidity	30% to 85% (no condensation)
Power	100 VAC to 240 VAC $\pm$ 10%, 50/60Hz IN x 2
Consumption	SDI 72 x 72, Dual CPU/Redundant Power Unit (Maximum Configuration) 100 V AC to 120 V AC: 370 VA (347 W) 220 V AC to 240 V AC: 440 VA (338 W)
Dimensions	430 (W) x 265 (H) x 400 (D) mm, EIA 6 RU 480 (W) (Including rack mount brackets)
Weight	35 kg (Including all options)
Consumables (at 24-hour operation)	Power supply unit: Replace every 5 years Fan 1 (P-1581): Replace every 4 years. Fan 2 (P-1580): Replace every 4 years. Fan 3 (P-1579): Replace every 4 years. Fan 4 (P-1578): Replace every 4 years.

#### Technical specifications

Video Formats	
3G-SDI	1080/60p, 1080/59.94p, 1080/50p (SMPTE424M)
HD-SDI	1080/60i, 1080/59.94i, 1080/50i, 1080/30p, 1080/30PsF, 1080/29.97p, 1080/29.97PsF, 1080/23.98p, 1080/23.98PsF, 1080/25p, 1080/25PsF, 1080/24PsF, 1080/24p, 720/60p, 720/59.94p, 720/50p (SMPTE292M)
SD-SDI	525/59.94i, 625/50i (SMPTE259M)
Matrix Size	Min. 9 x 9 to Max. 72 x 72 (Expandable on a 9-channel basis) Number of input slots: 8 Number of output slots: 8
Video Input	
MFR-9SDIR	3G/HD/SD-SDI Input Card (Max. 8 cards) - 75-ohm BNC x 9
Video Output	
MFR-9SDOR	3G/HD/SD-SDI Output Card (Max. 8 cards) - 75-ohm BNC x 9 (Automatic reclocking function)
Reference Input	BB: 0.429 Vp-p (NTSC)/0.45 Vp-p (PAL) or Tri-level Sync: 0.6 Vp-p 75-ohm BNC x 2, loop-through (Terminate with 75-ohm terminator, if unused.)
Interfaces	
MFR-LAN	10/100 BASE-TX, RJ-45 x 2 (For connecting up to 128 RU/GPI units.) (Second LAN port used in redundant CPU configuration)
PC-LAN	10/100/1000 BASE-T, RJ-45 x 2 (for PC operation) (Second LAN port used in redundant CPU configuration)

SERIAL	RS-232C/RS-422 (Internal switch), 9-pin D-sub (male) x 1
ALARM	9-pin D-sub 9 (female) x1 (Input: Reset, Output: Power, Fan Alarm, CPU changeover, Secondary CPU Alarm, Crosspoint Error Alarm)

**Options**

MFR-CPUR	Redundant CPU card
MFR-PSR	Redundant power supply unit (with AC cord and AC cord retaining clip.)
MFR-18RUA/39RUA/8RUA/40RU MFR-16RU/16RUD/16RUTA MFR-16/32/64RUW	Remote Control Unit

**Accessories**

AC cord and Quick setup guide

**2. External Dimensions**

(All dimensions in mm.)

