

MFR-1616/1616R/1616A/3216RPS/3232RPS Datasheet

1. Specifications

Basic specifications

Temperature	0°C to 40°C	
Humidity	30% to 90% (no condensation)	
Power	100VAC to 240VAC \pm 10%, 50/60Hz	
Consumption	100-120V [1616] 36 VA (33 W) [1616R] 37 VA (34 W) [1616A] 16 VA (17W) [3216RPS] 48 VA (45 W) [3232RPS] 60 VA (54 W) 220-240V [1616] 44 VA (34 W) [1616R] 44 VA (34 W) [1616A] 24 VA (17W) [3216RPS] 57 VA (45 W) [3232RPS] 70 VA (52 W)	
Dimensions	[1616/1616A] 430(W) x 44(H) x 300(D)mm EIA 1RU 480(W) (including rack mount brackets) [1616R/3216RPS/3232RPS] 430(W) x 88(H) x 300(D)mm EIA 2RU 480(W) (including rack mount brackets)	
Weight	[1616/1616R/1616A] 5 kg [3216RPS/3232RPS] 6 kg	
Consumables (at 24-hour operation)	Power unit: Replace every 5 years. [1616/1616R/3216RPS/3232RPS] Cooling fan: Replace every 4 years.	

MFR-1616/1616R/3216RPS/3232RPS technical specifications

Video Formats		
HD (3G-SDI)	1080/60p, 59.94p, 50p (SMPTE 424M)	
HD (HD-SDI)	1080/60i, 59.94i, 50i, 30p, 30PsF, 29.97p, 29.97PsF, 23.98p, 23.98PsF, 25p, 25PsF, 24PsF, 24p, 720/60p, 59.94p, 50p (SMPTE 292M)	
SD (SD-SDI)	525/59.94i, 625/50i (SMPTE 259M)	
DVB-ASI	Compliant to EN 50083-9	
Inputs x Outputs	[1616/1616R] 16 x 16 [3216RPS] 32 x 16 [3232RPS] 32 x 32	
Video Inputs	[1616/1616R] 3G/HD/SD-SDI 75 Ω BNC x 16 [3216RPS/3232RPS] 3G/HD/SD-SDI 75 Ω BNC x 32 Cable equalization -3G-SDI: 70 m (when a 5C-FB equivalent cable is used) -HD-SDI: 100 m (when a 5C-FB equivalent cable is used) -SD-SDI: 200 m (when a 5C-2V equivalent cable is used)	

Video Outputs	[1616/1616R] 3G/HD/SD-SDI 75Ω BNC x 16 (with automatic reclocking) [3216RPS] 3G/HD/SD-SDI 75Ω BNC x 16 (with automatic reclocking) [3232RPS] 3G/HD/SD-SDI 75Ω BNC x 32 (with automatic reclocking)
Reference Inputs	BB: NTSC: 0.429 Vp-p/PAL: 0.45 Vp-p or Tri-level sync: ±0.3Vp-p 75Ω BNC x 1, loop-through (Terminate with 75Ω terminator, if unused.)
Interfaces	
MFR-LAN	10/100BASE-TX RJ-45 (for RU/GPI connection, up to 128 units) [1616] x 1 [1616R/3216RPS/3232RPS] x 2 (LAN 2 for MFR-SRCPU)
PC-LAN	10/100BASE-TX RJ-45 x 1 (for computer or other external device connection)
SERIAL	RS-232C/RS-422 (selectable by internal switches) 9-pin D-sub (male) x 1
ALARM	9-pin D-sub (female) x 1

MFR-1616A technical specifications

Inputs x Outputs	16 stereo pairs (32 channels) × 16 stereo pairs (32 channels)
Audio Inputs	AES/EBU: 1.0Vp-p Unbalanced 75Ω BNC x 16
Audio Outputs	AES/EBU : 1.0Vp-p±10% Unbalanced 75Ω BNC x 16
Sampling Frequency	32kHz to 96kHz
Reference Input	BB: NTSC: 0.429 Vp-p/PAL: 0.45 Vp-p or Tri-level sync: ±0.3 Vp-p 75Ω BNC x 1, loop-through (Terminate with 75Ω terminator, if unused.)
Interfaces	
MFR-LAN	10/100BASE-TX RJ-45 x 1 (for RU/GPI connection, up to 128 units)
PC-LAN	10/100BASE-TX RJ-45 x 1 (for computer or other external device connection)
RS-232C	RS-232C 9-pin D-sub (male) x 1
ALARM	9-pin D-sub (female) x 1

Options

MFR-SRCPU	[1616R/3216RPS/3232RPS] Redundant CPU card
MFR-SRPS	[1616/1616R] Redundant power supply unit
MFR-32PS	[3216RPS/3232RPS] Redundant power supply unit
MFR-8RUA/18RUA/39RUA/40RU MFR-16RU/16RUD/16RUTA MFR-16RUW/32RUW/64RUW	Remote Control Unit
MFR-GPI	Interface Expansion Unit
MFR-TALM	Tally Manager Unit
MFR-RULINK	MFR Remote Relay Unit

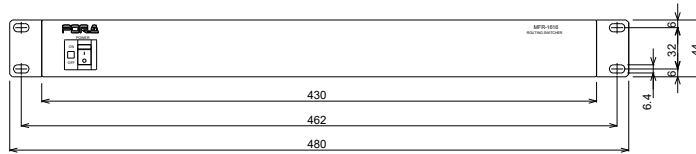
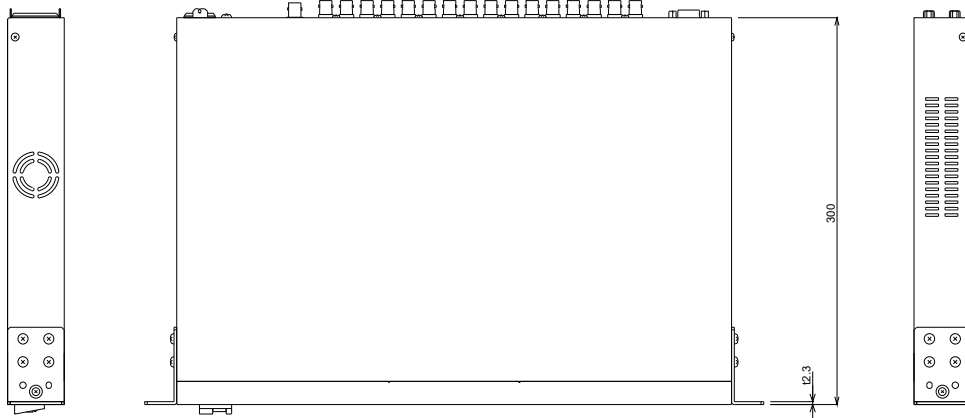
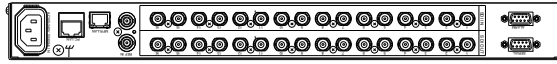
Accessories

AC Cord, EIA Rack Mount Brackets, Rubber Feet, SERIAL port setting notes, and Quick Setup Guide

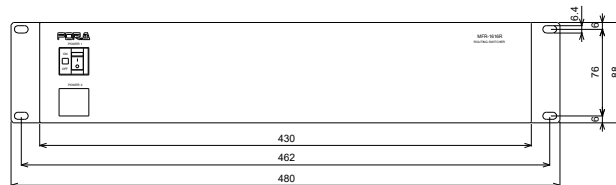
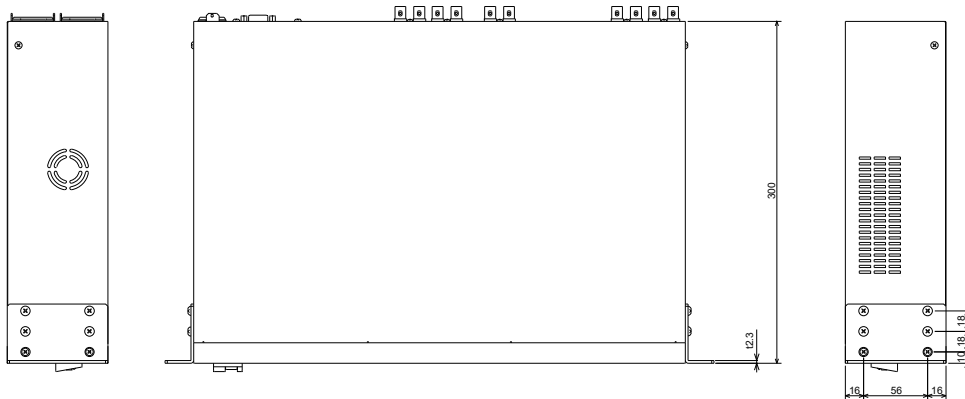
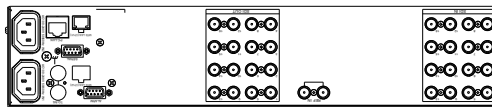
2. External Dimensions

(All dimensions in mm.)

MFR-1616

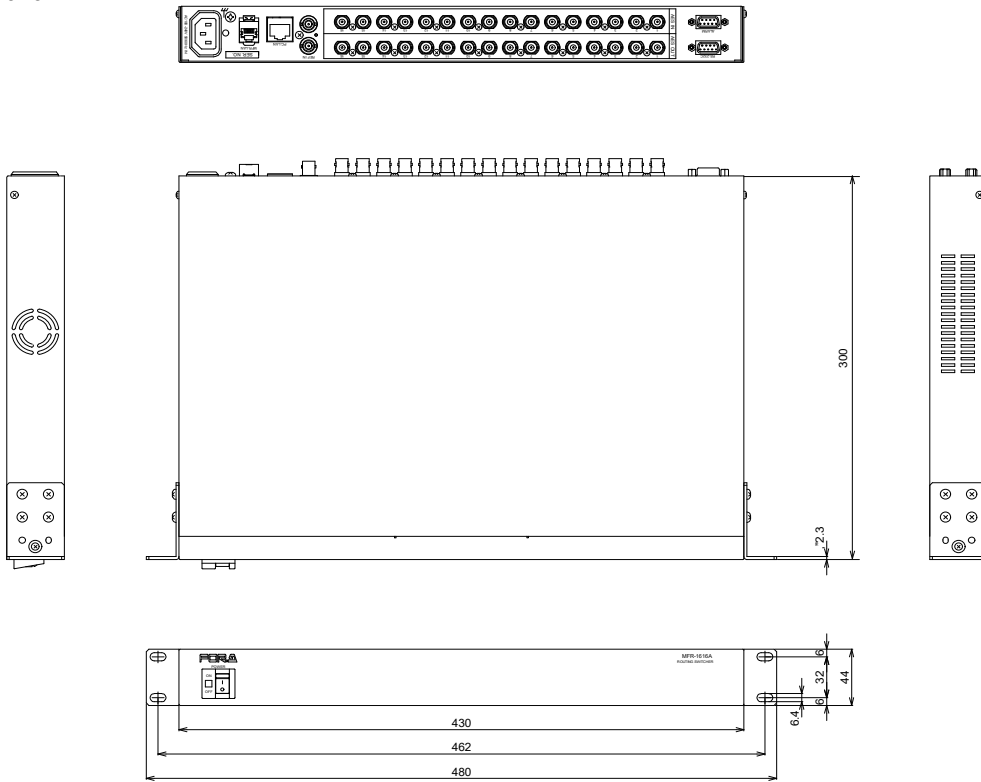


MFR-1616R

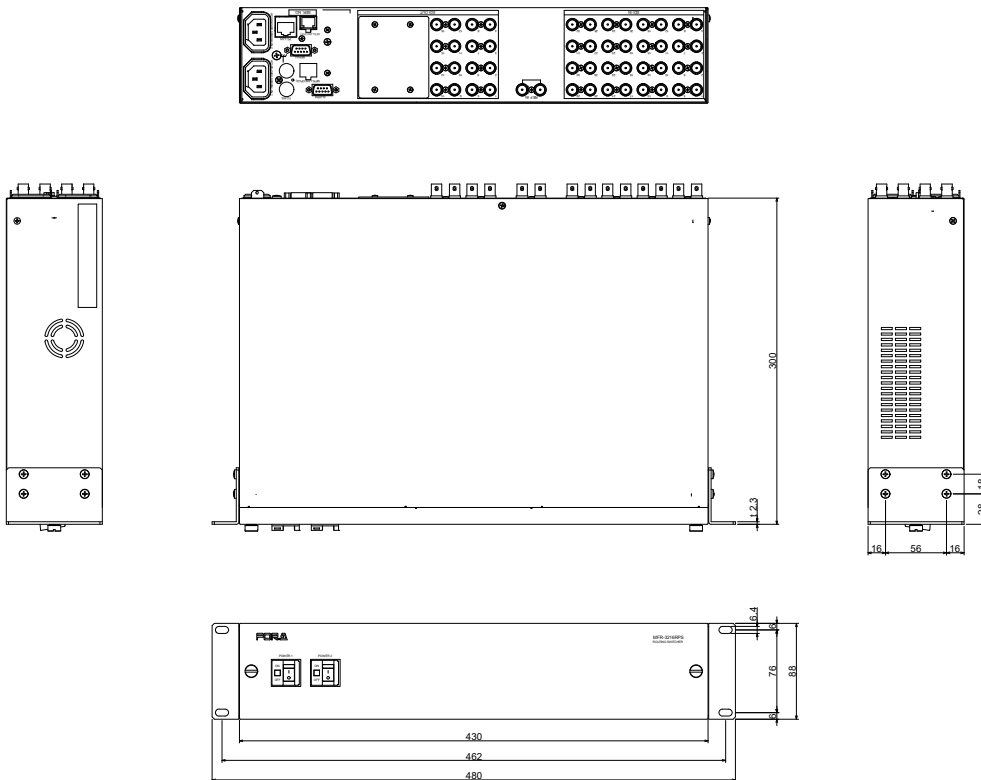


(All dimensions in mm.)

MFR-1616A



MFR-3216RPS



(All dimensions in mm.)

MFR-3232RPS

