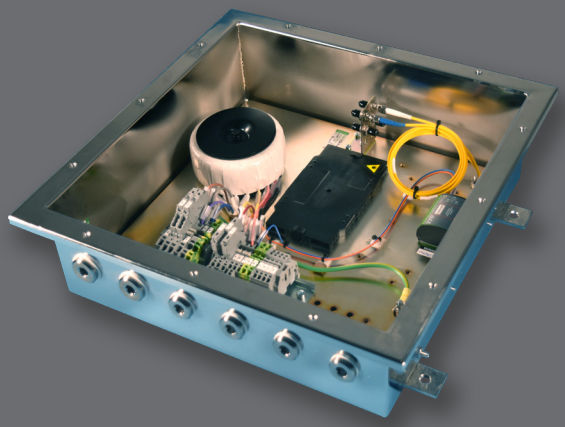
COEX™ Safe Area Power Supply Unit and Media Converter

PSU-MJB-5SSF

The COEX™ Power Supply Unit and Media Converter has been developed to work exclusively with the C2000 range of camera stations, providing a local low voltage supply, media conversion and cable termination for marine and safe area applications.



The Power Supply Unit and Media Converter has been designed for both toughness and durability as demanded for operation in the most adverse of environments.

Manufactured from electro-polished 316L stainless steel for maximum corrosion resistance. The model incorporates a transformer, terminals, media converter and the option for management of fiber optic cores, which when mounted at ground level provide a maintainable and accessible solution whilst also allowing ease of installation.

Features

- Enclosed system ensures high performance, and certified for temperatures from -45°C to +70°C ambient temperature
- Electro-polished 316L stainless steel, for maximum corrosion resistance
- IP66 and IP67 Rated

Options

- Analog video and data fiber converter
- Dual analog video and data fiber converter
- Media converter (Coax)
- Singlemode or multimode
- ST or SC configuration
- Lockable front cover
- Painted finish on external surfaces
- Removable sunshield
- Various voltage options
- Enclosure breather

SYNECTICS

Specifications

CERTIFICATIONS / RATINGS*1	
EMC	EN61000-6-4 & EN61000-6-2
CE / UKCA	IEC62368-1, IEC60529, IEC60825-1
DNV	TAA00001M2

ENVIRONMENTAL	[OPTIONS]
Operating Temperature*2	-45°C to +70°C / -49°F to +158°F
Storage Temperature	-45°C to +80°C / -49°F to +176°F
Ingress Protection*1	IP66 & IP67 to IEC 60529
Salt Mist	Tested to IEC 60068-2-52 & IEC 60945 Section 8.12
Vibration	0.7 g test to IEC 60068-2-6 & IEC 60945
Wind Loading	Operational to 130 km/h, survival to 268 km/h

MECHANICAL	
Material	Electro-polished 316L stainless steel
Enclosure Paint	Available on request
Dimensions (W x D x H)	444 x 131 x 444 mm / 17.48" x 5.16" x 17.48"
Weight Empty	8.9 kg / 19.62 lbs
Weight Populated*2	14.8 kg / 32.63 lbs
Mounting	4 x Ø 9 mm holes (Fixing kit included)
Standard Gland Entries*2	4 x M20, 2 x M25
Fiber Splice Provision*2	Up to 12x splice protectors

ELECTRICAL	[OPTIONS]
Input Power Options	(115 or 230) V AC 50/60 Hz ± 10%
Power Supply*2	100 VA Maximum
Inrush Current	40 A
Termination Clamp*2	[Wago Topjob S] Push-in cage clamp [Weidmuller WDU] Screw type [Weidmuller WDU SL] Screw + spring loaded cable clamp
Conductor Size (Stranded & Solid)*2	0.5 mm^2 - 16 mm^2 / 22 - 6 AWG
Typical Terminal Arrangement*2	WAGO Topjob S 5 + 1E (2006 - 0.5mm^2 to 10mm^2) 2E (2004 - 0.5mm^2 to 6mm^2) 10 (2002 - 0.5mm^2 to 4mm^2)

FIBER MEDIA CONVERTER*3	[PSU-MJB-5SSFA]	[PSU-MJB-5SSFAA]	[PSU-MJB-5SSFI]	[PSU-MJB-5SSFG]
Transmission Type	Analog Video / Data	Dual Analog Video / Data	IP	IP
Media Converter Model	SYN8817	2 x SYN8817	SYN2051	SYN2153
Analog Video Input	75Ω, 1 V pk-pk nominal, 5 Hz to 8 MHz, (-3 to 1) dB		-	-
Data Interface	TTL, RS422 and RS485; 31 kHz Manchester or Bi-phase possible in either direction		IEEE 802.3 Ethernet	IEEE 802.3 Ethernet
Data Rate	DC to > 500 kbps at less than 15% pulse width distortion		10/100 Mbps	10/100/1000 Mbps
Operating Mode	-		Half or Full Duplex (auto sensing)	Half or Full Duplex 10/100 Mbps, Full Duplex for 1000 Mbps
Optical Port Connector	ST		Refer to SFP Options table	
Number of Fibers Required	1	2	-	-
Transmitter Wavelength	Tx 1310 nm, Rx 1550 nm		-	-
Transmitter Optical Power	Singlemode (-13 to -6) dBm Multimode (-10 to -5) dBm		-	-
Sensitivity	< -32 dBm		-	-
Receiver Sensitivity	> -3 dBm		-	-

SFP OPTIONS*3	100FxLP	100Fx/20km	100Fx/30km	100WLFxA	1000Lx	1000WLxA
Optical Interface	100Base-Fx	100Base-Fx	100Base-Fx	100Base-Fx	1000Base-Lx	1000Base-Lx
Fibers Required	Dual	Dual	Dual	Single	Dual	Single
Wavelength	1310 nm	1310 nm	1310 nm	Tx 1310 nm Rx 1550 nm	1310 nm	Tx 1310 nm Rx 1550 nm
Transmit Optical Power	(-20 to -10) dBm	(-15 to -8) dBm	(-5 to 0) dBm	(-14 to -8) dBm	(-9 to -3) dBm	(-9 to -3) dBm
Receive Sensitivity	<-31 dBm	<-31 dBm	<-31 dBm	<-33 dBm	<-22 dBm	<-22 dBm
Standard Optical Link Budget*4	> 11dB	> 16dB	> 26dB	> 19dB	> 13dB	> 13dB
Optical Connector	LC	LC	LC	SC	LC	SC

MEDIA CONVERTER*3	Ethernet over Coax
Connectivity	Auto-optimizing for 75 Ω coaxial cable: 280m (920ft) full-rate over video-grade RG-59 (Up to 350m depending on cable quality) 350m (1150ft) full-rate over RG-6 500m (1640ft) full-rate over RG-11
Interface Data Rate	Auto-configuring for speed (10BASE-T or 100BASE-T) and duplex
Features	Retrofit existing analog CCTV installations to Ethernet-based systems, allow the connectivity of camera stations outside the permitted run length of 100Base-Tx Ethernet Cabling

NOTE: *1 Exact certification requirements must be specified at the time of order. *2 Dependent on certification and equipment fitted. *3 Exact interface option and media type must be specified at the time of order. Maximum transmission distance dependent on cable infrastructure quality and integrity. *4 Based on using the same SFP module at either end of the link.

PART CODE STRUCTURE

(Example)	PSU	-	MJB-5SS	F	A	A
	A	-	B	C	D	E

A - PRODUCT MODEL

PSU	Power Supply Unit

B - JUNCTION BOX MODEL

MJB-5SS	Stainless Steel Size 5

C - COMMUNICATIONS INTERFACE

F	Fiber

D - MEDIA CONVERTER

I	SYN2051
A	SYN8817
C	Ethernet over Coax
G	SYN2153

E - ADDITIONAL MEDIA CONVERTER

	None
A	SYN8817

Synectics
synecticsglobal.com

MANUFACTURER OF COEX CAMERA STATIONS

Reference Number:
06\DS 0612 Iss 3