

GLE/VGA-BUFF-100

VGA Video Splitter / T-Buffer Module



Applications

- Onboard and harsh environments instrumentation.
- Armoured / heavy-duty vehicles testing.
- Flight Testing / Certification of civil and military aircrafts.
- Railway and Automotive Testing.

Description

GLE/VGA-BUFF-100 is an exceptionally robust and compact device that acts as a "T" coupler to a VGA 75 Ohm video source, without any interruption or perturbation.

Each unit provides:

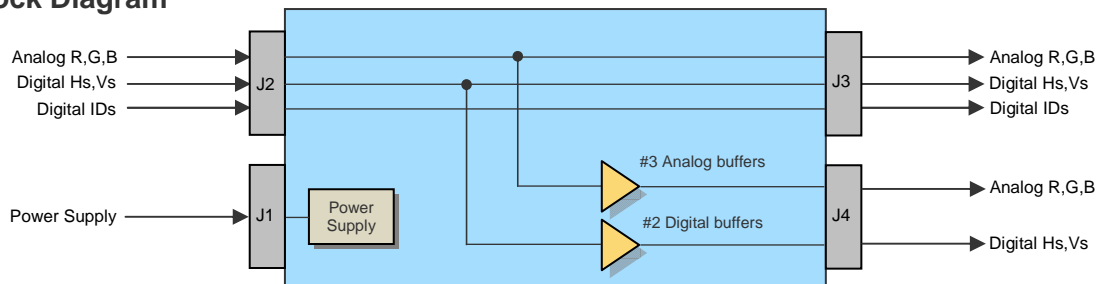
- two input connectors, internally connected together, in order to be inserted directly in a VGA video chain;
- one output connector where the

analog buffered video signals and digital buffered sync signals are available to be sent over proper VGA cable up to 30 m.

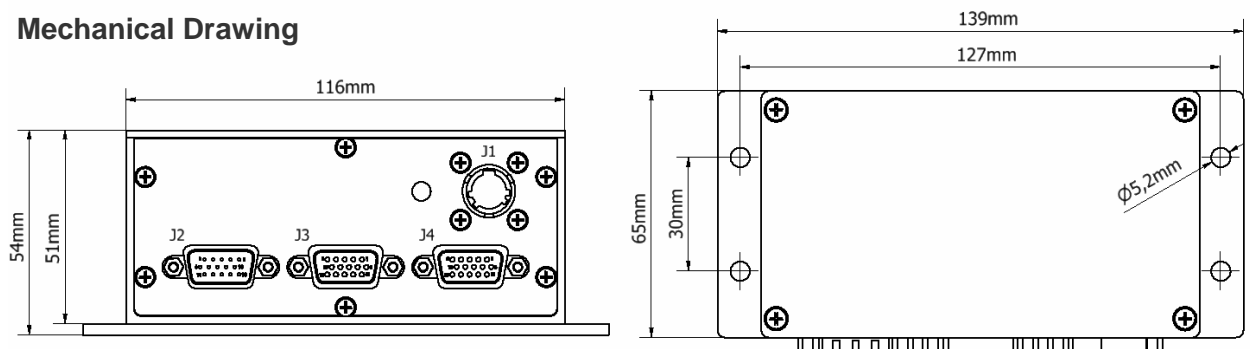
Main Characteristics

Input interface	VGA up to 1920x1080 @ 60 Hz
Input level	Video signals: standard VGA (0.7 Vpp); Digital sync signals: TTL
Input connector	VGA Standard pinout, 15 Pin D-Sub High density connector
Output interface	VGA (same resolution and refresh rate of input interface)
Output level	Video signals: standard VGA (0.7 Vpp) on 75 Ohm; Digital sync signals: TTL
Output connector	VGA Standard pinout, 15 Pin D-Sub High density connector
Power supply	19 ÷ 35VDC, 2Watt max
Enclosure	EMI/EMC shielded Alodine coated milled aluminum (116x51x65 mm w/o mounting flange)
Weight	< 370 grams
Temperature Range	Operating: -40 ÷ +85°C
Humidity	0 ÷ 95% RH
Altitude	Up to 65000 ft
Shock & Vibration	Certifiable per MIL-STD 810F

Block Diagram



Mechanical Drawing



Due to continuous developments, specifications are subject to change without prior notice.

This product is not intended for applications whose its failure to perform can be expected to cause damages to properties and/or persons and/or injury to human life.

Connectors and Pin Assignment

Equipment Connectors type			
Designation	Function	Type	Mating
J1	Power	MS3112E8-3P	MS3116F8-3S
J2	VGA Input	DSUB HD 15 Pin Plug	DSUB HD 15 Pin Socket
J3	VGA Output	DSUB HD 15 Pin Socket	DSUB HD 15 Pin Plug
J4	VGA Buffered	DSUB HD 15 Pin Socket	DSUB HD 15 Pin Plug

J1 pin assignment, Power Supply	
Function	Pin
Chassis	A
Power Supply Input (+10 ÷ 35 VDC)	B
Power Supply Return	C

J2, J3, J4 pin assignment, VGA input/output			
Pin Function			
J2 VGA input	J3 VGA output	J4 VGA buffered	Pin
Red input	Red output	Red output	1
Green input	Green output	Green output	2
Blue input	Blue output	Blue output	3
ID2	ID2	NC	4
GND	GND	GND	5
Red GND	Red GND	Red GND	6
Green GND	Green GND	Green GND	7
Blue GND	Blue GND	Blue GND	8
Key	Key	NC	9
GND	GND	GND	10
ID0	ID0	NC	11
ID1	ID1	NC	12
HSync input	HSync output	HSync output	13
VSyn input	VSyn output	VSyn output	14
ID3	ID3	NC	15

Mating connectors are not provided

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