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Rugged USB Repeater
A compact rugged device for extending USB connections

The Parraid Rugged USB Repeater™ (RUR) is a device that reliably extends USB connections. While USB is a widely used connection, it is limited to a length of only 5 meters (16.4 feet), many installations need a longer cable run. Each RUR extends a connection between USB host and USB device, and multiple RUR devices can be added end-to-end to provide even more interface distance. The RUR is USB powered and requires no external power sources. The product is fully USB 2.0 high-speed compliant. Designed to operate in harsh battlefield conditions, the product is certified MIL-STD-810D, MIL-STD-464C, and MIL-STD-461F.

300-2F1000-000 RUGGED USB REPEATER

FEATURES

▶ 5 meters (16.4 feet) of USB extended length per RUR

▶ Compact size and lightweight

▶ Bus powered with USB

▶ Rugged packaging; designed to meet MIL-STD-810D requirements

▶ Secure, high performance aircraft style connectors

▶ EMI/RFI protection designed to meet MIL-STD-461F requirements

▶ Electrostatic discharge protection to meet MIL-STD-464C requirements

▶ Finished in Chemical Agent Resistant Coating (CARC)

▶ USB 2.0 specification compliant

▶ Multiple RURs can be linked end-to-end

   -5 RURs for self-powered USB devices

   -2 RURs for bus-powered USB devices up to 100 mA

▶ No special USB drivers required; simple plug-in installation
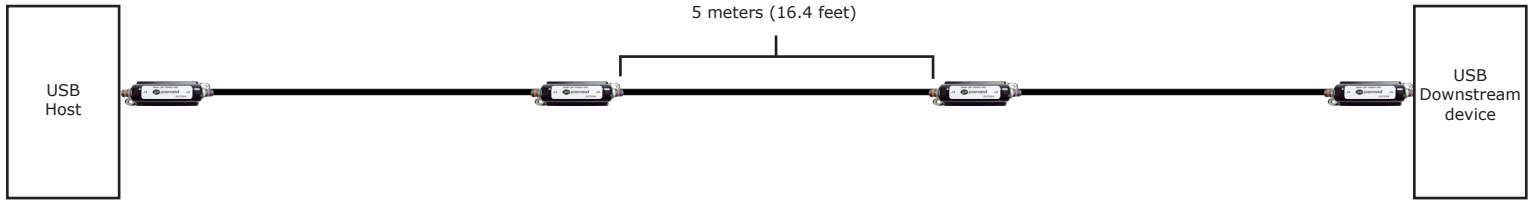
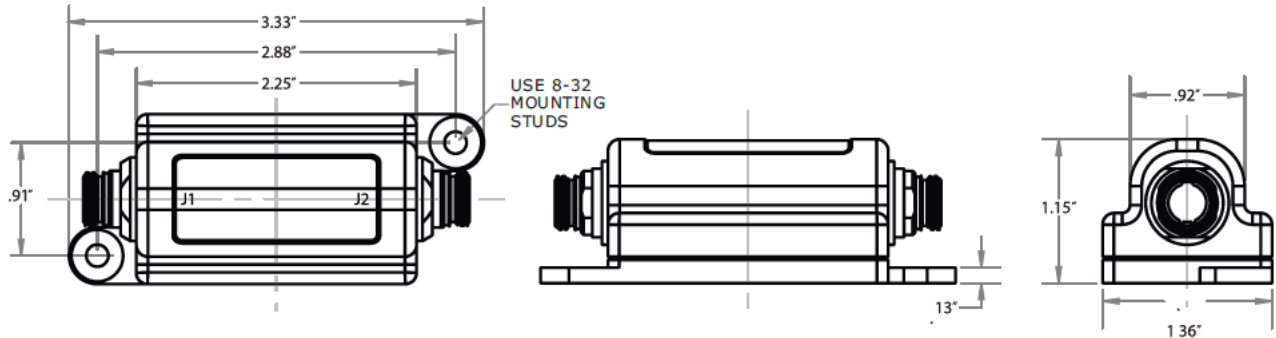▶ Transparent to software applications

RUR COMPLIANCE CERTIFICATIONS

▶ 90182-100 Production Test

▶ Explosive Atmosphere Analysis, October 2017

▶ Electromagnetic Compatibility Criteria, MIL-STD-461F, May 2018

▶ ESD Discharge, MIL-STD-464C, May 2018

▶ Environmental Criteria, MIL-STD-810D, May 2018

▶ Parraid Rugged USB Repeater MIL-STD Report available upon request

RE-RUR-PF Rev 02

MULTIPLE RUR'S TO EXTEND LINK

5 meters (16.4 feet)

USB Host

USB Downstream device

RUR DIMENSIONS

3.33"
2.88"
2.25"
.91"
J1   J2
USE 8-32 MOUNTING STUDS

.92"
1.15"
13"
1 36"

	Minimum	Maximum
Part Number	300-2F1000-000	
Extended Cable Distance	0 Meters	5 Meters
USB Ports	(1) Upstream, (1) Downstream	
Upstream Cable Connector	Lemo FGS.0M.305.XLMT	
Downstream Cable Connector	Lemo FGN.0M.305.XLCT	
Upstream Port Speed	High-speed (480 Mb/s) or full-speed (12 Mb/s) hosts	
Downstream Port Speed	High-speed, full-speed, or low-speed devices	
Power Source	USB bus power	
Input Voltage (upstream)	+5VDC nominal	
Input Voltage range	+4.5VDC	+5.5VDC
Output Voltage (downstream)	+5VDC nominal	
Power (consumption)		30 mA @ 5VDC, 0.15 Watts
Temperature (Operating)	-53C	+70C
Temperature (Storage)	-62C	+125C
Humidity (Non-condensing)	5%	95%
Cooling	Conduction/Convection via case	
Weight	2.7 ounces	
Certifications	MIL-STD-810D, MIL-STD-464C, MIL-STD-461F	

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DESIGN | BUILD | SUPPORT

RE-RUR-PF Rev 02

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