



## SERIAL DEVICE SERVER

# 6-Port RS-232/422/485

## Interface Converter

### Innovation with Integrity

The Serial Device Server is an interface converter that integrates the serial interfaces of up to 6 connected devices into an Ethernet network. This allows a system (e.g. a PC) to communicate with the connected serial devices via an Ethernet network.

Each port can individually be configured with its own IP address and serial protocol type pairwise. The Serial Device Server gives you the flexibility to connect almost any type of device. You can use an existing Windows based application to access a serial device by mapping the virtual COM port to a remote serial server over Ethernet. The Serial Device Server is designed and tested for operation in harsh environments and therefore suitable for both military and civil applications.

### Features and Benefits

- Small dimensions and easy to integrate
- Ruggedized – meets military requirements
- High level of immunity against electromagnetic interference and electrical surges
- Wide operating temperature range for use in harsh environments
- Extended range DC power input and low power consumption
- Status-LEDs for ethernet and power
- Individual modules for each serial interface
- Serial operation mode selectable via Web management interface
- Data communication using the TCP AES standard
- Operational after approx. 10 seconds
- No preventive maintenance required

# Technical Specifications

## Ethernet Interface Characteristics

Compatibility	IEEE 802.3 with Auto MDIX
Speed	10Base-T / 100Base-TX
No. of Ports	1
Connector/Design	8-pin RJ45 / AMPHENOL RJF

## Serial Interface Characteristics

Compatibility	RS-232, RS-485 full-duplex / RS-422, RS-485 half-duplex
Speed	up to max. 230.4 kbit/s (configurable)
No. of Ports	6
Connector/Design	6-pin MIL Spec Connector / AMPHENOL PT02E10-6S-033K
Data Bits	7, 8
Stop Bits	1, 2
Parity	None, Even, Odd
Flow Control	None, Hardware, Software

## Power Interface Characteristics

Input Voltage	10 V DC to 32 V DC
Power Consumption	max. 10 W
Insulation Resistance	≥ 5 MΩ @ 50 VDC
No. of Ports	1
Connector/Design	3-pin MIL Spec Connector / GLENAIR ITB3102R10SL-3PF7

## Physical Characteristics

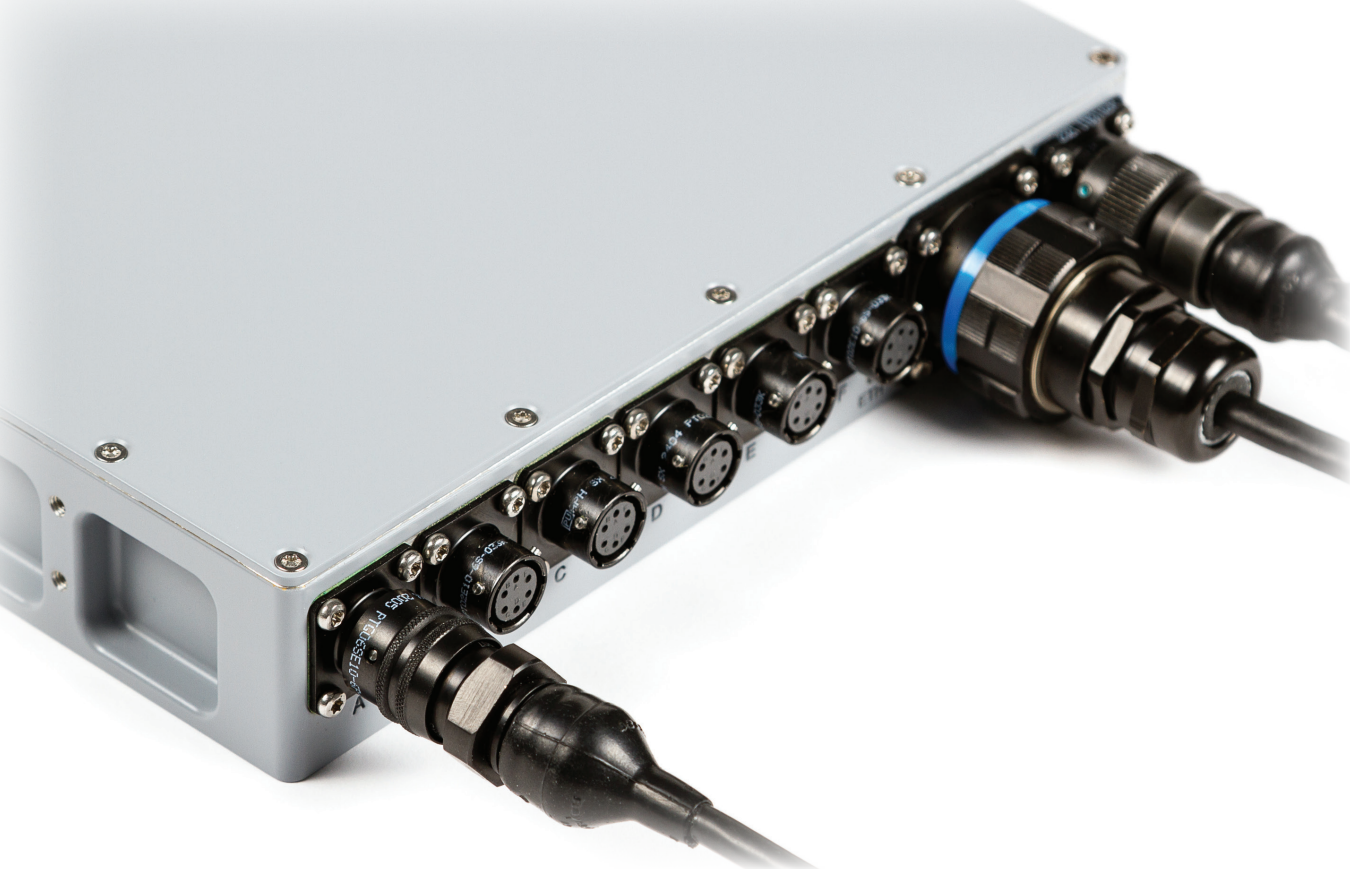
Housing	Aluminium
Colour Code	RAL 7001 - silver grey
Dimensions (with brackets)	L x W x H: 280 mm x 200 mm x 44 mm
Dimensions (without brackets)	L x W x H: 220 mm x 200 mm x 44 mm
Weight	1,5 kg

## Environmental Parameter

Operating Temperature	-21° C to +53° C
Storage Temperature	-33° C to +71° C
Protection class dust/water	IP 65
Humidity	Up to 95% relative humidity

## Standards and Certifications

<b>Environment Measurement Procedures</b>	MIL-STD-810H	<ul style="list-style-type: none"> <li>501.7 High Temperature</li> <li>502.7 Low Temperature</li> <li>503.7 Temperature Shock</li> <li>507.6 Humidity</li> <li>509.7 Salt Fog</li> <li>514.8 Vibration</li> <li>516.8 Shock</li> <li>528.1 Mechanical Vibrations of Shipboard Equipment</li> </ul>
	EN60529	<ul style="list-style-type: none"> <li>Degree of protection (IP65, with applied closure caps)</li> </ul>
<b>Electromagnetic Compatibility</b>	MIL-STD-461G	<ul style="list-style-type: none"> <li>CE101 Conducted emissions, audio frequency currents, power leads</li> <li>CE102 Conducted emissions, radio frequency potential, power leads</li> <li>CS101 Conducted susceptibility, power leads</li> <li>CS114 Conducted susceptibility, bulk cable injection</li> <li>CS115 Conducted susceptibility, bulk cable injection, impulse excitation</li> <li>CS116 Conducted susceptibility, damped sinusoidal transients, cables and power leads</li> <li>CS118 Personnel borne electrostatic discharge</li> <li>RE101 Radiated emissions, magnetic field</li> <li>RE102 Radiated emissions, electric field</li> <li>RS103 Radiated susceptibility, electric field</li> </ul>
<b>Shipboard Electrical Power Systems</b>	MIL-STD-1275E	<ul style="list-style-type: none"> <li>Characteristics of 28 Volt DC input power to utilization equipment in military vehicles</li> </ul>
	STANAG 1008 NAV	<ul style="list-style-type: none"> <li>Characteristics of shipboard electrical power systems in warship of the North Atlantic Treaty Navies (low voltage DC)</li> </ul>
<b>Construction Regulations</b>	BV 0440	<ul style="list-style-type: none"> <li>Construction regulations for ships and boats, military requirements vibration</li> </ul>
<b>EN Standards</b>	EN 55032	<ul style="list-style-type: none"> <li>Electromagnetic compatibility of multimedia equipment - Emission requirements</li> <li>Requirements for radiated emissions for class B devices and equipment</li> <li>Requirements for conducted asymmetrical emissions from class B devices and equipment</li> </ul>
	EN 55035	<ul style="list-style-type: none"> <li>Electromagnetic compatibility of multimedia equipment - Immunity requirements</li> </ul>
	EN 61000-4-2	<ul style="list-style-type: none"> <li>Electromagnetic compatibility (EMC) Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test</li> </ul>
	EN 61000-4-3	<ul style="list-style-type: none"> <li>Electromagnetic compatibility (EMC) Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test</li> </ul>
	EN 61000-4-4	<ul style="list-style-type: none"> <li>Electromagnetic compatibility (EMC) Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test</li> </ul>
	EN 61000-4-5	<ul style="list-style-type: none"> <li>Electromagnetic compatibility (EMC) Part 4-5: Testing and measurement techniques - Surge immunity test</li> </ul>
	EN 61000-4-6	<ul style="list-style-type: none"> <li>Electromagnetic compatibility (EMC) Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields</li> </ul>
	EN 62368-1	<ul style="list-style-type: none"> <li>Audio/video, information and communication technology equipment - Part 1: Safety requirements</li> </ul>



## Software

<b>Configuration</b>	Integrated WEB-Manager
<b>Virtual Com Port Driver</b>	LANTRONIX™ Secure Com Port Redirector™ (SCPR)

## Accessories (sold separately)

<b>Mountain Bracket, Set</b>	2 brackets and screws
<b>Connectors</b>	suitable for Ethernet, Serial and Power interface
<b>Protective Caps</b>	suitable for Ethernet, Serial and Power interface

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