Press Release

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POLYRACK TECH GROUP develops rugged MIL ½ short ATR chassis
Heavy-duty system platform for rough environments

Straubenhardt (Germany), October 20, 2014 – The POLYRACK TECH-GROUP has developed an ATR system (Air Transportation Rack) for use in rough mechanical, climatic, chemical and electrical environments. The **rugged MIL ½ short ATR chassis** is designed according to ARINC 404A and has five 3U slots with Open VPX profile. The chassis conforms to VITA 65 and operates at a data transfer rate of up to 10Gbit/s. Dip brazed, the casing offers a completely sealed environment and assists passive "conductive cooling" by conducting the heat effectively away from the board and power supply unit. Wedge locks secure the board into the rack and support thermal management. As a result, this method combines excellent performance with the highest level of protection against shock and vibration, strongly fluctuating operating temperatures, dust and liquids in accordance with IP67 and other rough conditions.

The rugged MIL ½ short ATR chassis series is fitted with conduction cooled power supply compliant with VITA 62; various AC and DC inputs are available. Due to its aluminium structure the casing is very light. Moreover, by selecting norm-compliant materials it is suitable for use at higher altitudes (e.g. in aeroplanes, helicopters). The standard model is available in 13 sizes and versions which all comply with the norm. They can be adjusted in size, function, features and performance depending on the criteria required. Furthermore, the system can be configured using CPCI, VME, VMEX and VPX backplanes as well as power supply units and I/O connection cards.

The heavy-duty rugged MIL ½ short ATR chassis is constructed according to specifications on safety and defence technology and satisfies all applicable norms and standards, e.g. MIL-STD-810G, MIL-STD-461C and MIL-STD-704(B-F). Fields of applications include aerospace (e.g. airborne fighters, helicopters), the navy (e.g. shipboards), the transportation sector (e.g. land

vehicles) and demanding applications in industry and telecommunications technology.

For the first time, POLYRACK used OpenVPX VITA65-compliant technology in developing and manufacturing backplanes and applied ANIC 404A for the mechanics. Aluminium 6061 - T651 is used and processed by manufacturing methods such as salt bath soldering. POLYRACK will be presenting its new system platform for the first time at the world's leading trade fair, electronica 2014, in Munich (hall B1, booth 441).

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About POLYRACK TECH-GROUP (www.polyrack.com)
The POLYRACK TECH-GROUP develops and manufactures high quality standard cases and customer-specific enclosure solutions. Thanks to a broad range of technologies in the mechanical manufacturing, systems engineering / electronics, plastics and surface finishing, POLYRACK offers electronic packaging for every need. The service offering extends from consulting in the conception phase, development, manufacturing and assembly right through to logistic solutions and sourcing services. The company group comprises the POLYRACK Electronic-Aufbausysteme GmbH (Electronic Packaging and Systems Technology), RAPP Kunststofftechnik GmbH (Plastics Technology), RAPP Oberflächenbearbeitung GmbH (Surface Treatment) and subsidiaries in Switzerland, Belgium, America and China. The daughter company econ solutions GmbH is responsible for the development and distribution of the energy monitoring system “econ”. The owner-managed company has 340 employees and achieved a turnover of 42 million euros in the group in fiscal year 2013.

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