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PRESS RELEASE

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ODU System Solutions for High End Dismounted Soldier Systems (DSS)

We combine several individual parts into a composite whole and refer to this as a system. Similar to a chain, a system is only as strong as the weakest link. This simple insight presents us with many challenges. Interactions arise between the individual parts, the application and environmental influences. Interesting are therefore not only the individual parts, but the connection and the mutual influence.

Networking brings advantages

In the military sector, sensors, databases and individual weapons, but also military units are connected to form a system. Instead of operating individual platforms, the interaction of vehicles, unmanned drones and emergency services becomes the focus. The exchange of large amounts of data is also possible. This networking enables faster action, increases protection and mobility. An improved information base provides a basis for decision-making, especially in crisis situations. A decisive advantage in use.

Impact of digitalization

Military operations have changed requirements. Modern digitized technology is no longer sufficient. Artificial intelligence (AI) plays an essential role and increasingly complex amounts of data are becoming increasingly important. Situational awareness depends on artificial intelligence. From the monitoring of the vital systems of the emergency services to the transmission of real data for vehicles and corresponding alarms, mobile networking has become indispensable. In the future, the number of platforms and sensors in use will continue to increase, adapted to the needs of the operator, from the soldier in action to the command personnel in the operations center.



Innovation creates demand

Driven by continuous innovation and international procurement, the demand for rugged military connectors is increasing. The market for military equipment is growing dramatically. While it used to be sufficient to equip group leaders with radios, complete companies are now equipped with intelligent hubs. Light and portable security and communication technology, computer systems or vision and surveillance systems are a matter of course.

ODU AMC® connectors in use for these portable nodes, ODU offers connectors for transmitting data, signals or currents. Various peripheral devices such as optotronics, battery systems and communication devices can thus be intelligently networked with each other and create cross-platform system compatibility. Rugged and resistant and optimized for demanding applications are the basic requirements. But robust does not necessarily mean heavy. True to the motto "high speed, low drag", ODU attaches great importance to a space-saving and lightweight design right from the development stage and achieves a weight advantage of up to 70%. This relieves the load on the task forces, with the result that they can perform their duties more persistently or carry more supplies or equipment.

ODU AMC® connectors are qualified to various MIL standards, such as MIL-STD-810G, to ensure the flow of information and power even in hostile environments. Through various qualification scenarios, the connectors even meet the requirements of MIL-STD38999 or NATO STANAG 4695. Thus, the ODU AMC® connectors can also meet requirements for temperature extremes or strong vibrations. Easy handling, even in hazardous situations or when impaired by e.g. protective equipment, as well as a high number of mating cycles and field cleaning are the focus for ODU connectors as well as customized mating systems.

Focus on the customer

Depending on the customer's requirements, the product is tailored. From the clarification of technical issues to the development of a system solution for the device part with PCB connection and cable assembly, ODU ensures the perfect connection.



ODU Group: global representation with perfect connections

The ODU Group is one of the world's leading suppliers of connector systems, employing 2,600 people around the world. In addition to its company headquarters in Muehldorf a. Inn (Germany), ODU also has an international distribution network and production sites in Sibiu/Romania, Shanghai/China, and Tijuana/Mexico. ODU combines all relevant areas of expertise and key technologies including design and development, machine tooling and special machine construction, injection, stamping, turning, surface technology, assembly and cable assembly. The ODU Group sells its products globally through its sales offices in China, Denmark, France, Germany, Hong Kong, Italy, Japan, Korea, Austria, Romania, Sweden, UK and the US, as well as through numerous international sales partners. ODU connectors ensure a reliable transmission of power, signals, data and media for a variety of demanding applications including medical technology, military and security, automotive, industrial electronics, and test and measurement.