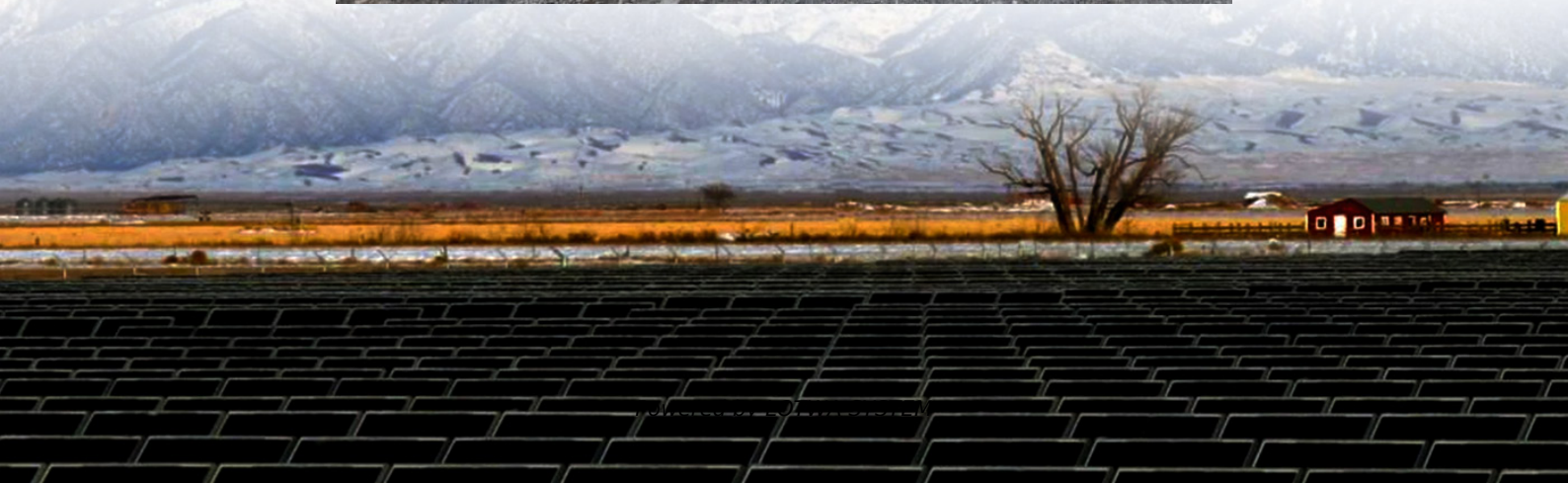


# **Solar container communication station EMS needs to use optical fiber**





## Overview

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Why do can systems need fiber optic links?

Among those systems three basic principles of linking electrical CAN segments with fiber optic links are considered. CAN with the corresponding physical layer standards for electrical signaling is a powerful, robust and cost effective communication network for industrial control applications. So why add optical fiber links to CAN systems?

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Why should you use optical fiber in a can based system?

Some of the benefits that can be achieved are improved EMC behavior, increased flexibility regarding installation topologies, enhanced communication system speed and throughput with reduced latency. Another reason to use optical fiber links in CAN based systems may simply be to deal with existing infrastructure.

Why is optical fiber important for a substation?

Optical fiber provides the necessary electrical isolation to drastically reduce the risks to people and equipment. Substation operators make it their business to understand vital equipment such as switches and routers in order to specify and select the best product for their applications.

Are communication and control systems needed for distributed solar PV systems?

The existing communication technologies, protocols and current practice for solar PV integration are also introduced in the report. The survey results show that deployment of communication and control systems for distributed PV systems is increasing.



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CAN and Optical Distances

Enhancing Can Systems with Optical Fiber LinksFibre Optic Converters For CanFiber Optic Transceivers For CanFibre Optic Routers For CanConclusionThis article will discuss technical solutions and application examples for CAN-based systems, which combine CAN segments with electrical signaling with communication links based on fiber optics. Among those systems three basic principles to link optical segments with electrical segments are considered. Fig 1: The fiber



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