



INTEGRATING SENSING AND DATA COMMUNICATION



In practice redundancy issues and smart sensing are addressed in solution developments allowing bidirectional interrogation combined with smart sensor networking and integrated data communication.

Technobis successfully demonstrated continuous bi-directional FBG interrogation while maintaining high bandwidth data communication speeds. Such a concept allows a first degree sub-system failure, keeping remaining systems fully functional. Smart network management for instance allows immediate rerouting of both measurement and control data through distributed network nodes.

The compatibility of PIC components for data communication and FBG sensing, enables the full integration of their functionalities on a single chip. In view of the trends towards miniaturization, the system concept combines many multiple features into a single high reliable PIC based system and subsequently highly applicable for multi-parameter sensing and datacommunication purposes.

OEM multi-chip
demonstrator



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