

A Digital Signal Receiver VXI Module for BPM and Phase Detection

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Abstract

A second generation VXI module containing eight digital receivers is developed for use in the Main Injector. It is used as a phase detector and radial position processor during multi-harmonic operation. This module is also slated for use in the Recycler Electron Cooling system as a multiple beam BPM processor. The module and its many operational modes are discussed.