

**CUSTOM VME MODULES FOR TRIUMF/ISAC BEAM
DIAGNOSTICS.**

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The Beam Diagnostic system for the TRIUMF/ISAC Radioactive Beam Facility was implemented in VME. After a market survey of available commercial modules it was decided to develop four modules: an 8 channel 50-300 volt bias supply, an 8 channel variable gain current amplifier, a 72 channel current integrator and a 32 bit optically isolated digital I/O module. These modules integrate existing NIM based analog functions with onboard A/D and digital control. This has significantly reduced hardware costs and also labour costs by eliminating module interconnections and breakout panels.