

Development of a new AMC card for the Diamond-II EBPM Upgrade

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For the Diamond-II upgrade the entire Electron Beam Position Monitor system will be upgraded with 10-times the bandwidth. This will be implemented on AMC cards with 250 Ms/s ADCs and substantial signal processing. Finding a suitable AMC card was unexpectedly challenging and we have worked closely with IOxOS on the development of the new IFC_1412 AMC carrier card. This presentation will cover the design of the new D-II EBPM system, the choice of hardware, and the process of working with the vendor on the development of the new carrier card.

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