









CHARM Video Tracking Comparison Table



Image	Product	Size of board	Data interfaces	Video inputs	Video outputs	Processing Channels
	CHARM Module	50mm x 50mm	2 x UART Ethernet	1 x Parallel digital	1 x HDMI 1 x Parallel digital	1
	CHARM 100NX	100mm x 100mm	4 x RS422 Ethernet CAN bus, IRIG, 8 x GPIO	2 x SD/HD/3G/6G SDI	2 x SD/HD/3G/6G SDI	1
	CHARM 80	80mm x 90mm	2 x RS232 2 x RS422 Ethernet	2 x PAL/NTSC or 2 x HD-SDI	2 x PAL/NTSC or 2 x HD-SDI	1
	CHARM 100	100mm x 100mm	4 x RS422 Ethernet CANbus	2 x PAL/NTSC 2 x YPbPr 4 x SD/HD-SDI	4 x PAL/NTSC/YPbPr 4 x SD/HD-SDI	2
	CHARM 100CL	100mm x 100mm	3 x RS422 Ethernet IRIG, CANbus	2 x SD/HD/3G-SDI 1 x CameraLink (Base/Medium/Full)	2 x SD/HD/3G-SDI	2
	CHARM 3U	Single Eurocard	2 x RS232 2 x RS422 Ethernet	2 x PAL/NTSC	2 x PAL/NTSC	1
	CHARM 3U cPCI	3U x 160mm	2 x RS232 2 x RS422 Ethernet	2 x PAL/NTSC or 2 x HD-SDI	2 x PAL/NTSC or 2 x HD-SDI	1
	CHARM 6U	VME Double Eurocard	2 x RS232 2 x RS422 Ethernet, VME	2 x PAL/NTSC 2 x HD-SDI	2 x PAL/NTSC 2 x HD-SDI	1

All CHARM products and DART offer the following features:

- Multiple object detection tracking
- Centroid & edge measurement
- Feature based correlation algorithm
- Moving object detection
- Adaptive background removal
- Automatic coast
- Grey level invariant algorithms
- Robust clutter rejection
- Platform filters.

Optional features include:

- Electronic image stabilisation
- Video compression & streaming
- Servo platform control
- Object classification

Note - Platform filters and Optional features are not available with the DART software.