

## 2 Controller and Switch Instructions

The equipment listed in this chapter is certified for use in certain specified hazardous (classified) locations. Follow all applicable instructions in the section [Conditions of Safe Use](#) and the specific section for each piece of equipment for proper use of this equipment in these locations.

### 2.1 UCSA, UCSB, UCSC and UCSD Controllers

The following table lists the controllers that are certified for hazardous location usage.

**Note** For UCSC, UCEC and UCSD controller conditions of safe use and hazardous locations installation requirements, refer to *UCSC, UCEC and UCSD Installation and Maintenance Requirements* (GFK-3006).

For general application information, refer to the *Mark VIe and Mark VIeS Control Systems Volume II: General-purpose Applications System Guide* (GEH-6721\_Vol\_II), the section *UCSC Controllers*.

Processor	Part Number	Name
Quad core, 1.2 GHz AMD® G-Series	IS420UCSCH1	Mark VIe controller
Dual core, 1.6 GHz AMD G-Series	IS420UCSCH2	MarkStat controller
Dual core, 1.6 GHz AMD G-Series	IS420UCSCS2	Mark VIeS Safety controller
Quad core, 1.6 GHz AMD V1000-Series	IS420UCSDH1	Mark VIe controller
Quad core, 1.6 GHz AMD V1000-Series	IS420UCSDS1	Mark VIeS Safety controller
600 MHz EP80579 Intel®	IS420UCSBS1A	Mark VIeS Safety controller
	IS421UCSBS1A (conformal coated)	
	IS420UCSBH1A	Mark VIe, EX2100e, or LS2100e controller
	IS421UCSBH1A (conformal coated)	
1066 MHz EP80579 Intel	IS420UCSBH4A	Mark VIe, EX2100e, or LS2100e controller
	IS421UCSBH4A (conformal coated)	
	IS420PPNGH1A	PROFINET gateway module
1200 MHz EP80579 Intel	IS420UCSBH3A	Mark VIe or MarkStat controller
667 MHz PowerQUICC® Pro Freescale	IS220UCSAH1A	Mark VIe controller
		PAMC Acoustic Monitor (processor)
		PMVE Migration from Mark V Control (processor)

#### 2.1.1 UCEC Module

The IS420UCECH1 module is certified for hazardous location usage. This module is an IS420UCSCH1 controller coupled with a seven I/O port expansion board. The UCSCH1 controller contained within the UCECH1 module has the same features and benefits as the stand-alone UCSCH1 controller. For further details on the UCECH1 module, refer to the *Mark VIe and Mark VIeS Control Systems Volume II: General-purpose Applications System Guide* (GEH-6721\_Vol\_II), the section *UCECH1x I/O Port Expansion Module*.