F206/F215/G215 Option Matrix

Embedded Solutions

Depending on the resources required by the single FPGA IP cores, **not all combinations** of IP cores in all kinds of instances are possible. However, to get a first idea of what's possible and what's not, you can summarize the resources of the IP cores (LEs = logic elements). Then compare the sum with the maximum available number of LEs of F206 (12,000 LEs), F215 (39,600 LEs) or G215 (29,440 LEs). A **maximum of 8 SA-Adapters™** can be included.

Function	Isolation	SA-Adapter	Required IP Core	Required Software Driver					IP Resources [Altera® LEs]
				Windows	Linux	VxWorks	QNX	Comment	
Serial RS232	No	08SA01-00	16Z025_UART or 16Z125_UART	Windows Standard Driver	13Z025-90	13Z025-60	13Z025-40	Native	1800
	Yes	08SA03-00 or 08SA03-01	16Z025_UART or 16Z125_UART	Windows Standard Driver	13Z025-90	13Z025-60	13Z025-40	Native	1800
Serial RS422 (Full duplex)	No	-	-	-	-	-	-	-	-
	Yes	08SA02-01 or 08SA02-07	16Z025_UART or 16Z125_UART	Windows Standard Driver	13Z025-90	13Z025-60	13Z025-40	Native	1800
Serial RS485 (Half duplex)	No	-	-	-	-	-	-	-	-
	Yes	08SA02-00	16Z025_UART or 16Z125_UART	Windows Standard Driver	13Z025-90	13Z025-60	13Z025-40	Native	1800
HDLC	Yes	08SA02-01 or 08SA02-07	16Z055_HDLC	-	13Z055-90	-	13Z055-40	Native	1050
CAN bus	Yes	08SA08-01	16Z029_CAN	13Z015-70	13Z015-06	13Z015-06	13Z015-06	MDIS (MSCAN)	2000
				13Z016-70	13Z016-06	13Z016-06	13Z016-06	MDIS (CANopen)	
IBIS Master	Yes	08SA22-00	16Z025_UART	Windows Standard Driver	13Z025-90	13Z025-60	13Z025-40	Native	1800
IBIS Slave	Yes	08SA22-01	16Z025_UART	Windows Standard Driver	13Z025-90	13Z025-60	13Z025-40	Native	1800
Binary I/O	Yes	08SA15-00	16Z037_GPIO	13Z017-70	13Z017-06	13Z017-06	13Z017-06	MDIS	130 .. 850 (8..64 I/Os)
GPS	Yes	08SA25-00	16Z025_UART or 16Z125_UART	Windows Standard Driver	13Z025-90	13Z025-60	13Z025-40	Native	1800

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