



PERFORM

2 0 0 7 E D I T I O N

DUAL PORT CROSS REFERENCE *GUIDE*

Our Portfolio



Cypress is a leader in multi-port memory solutions, offering the most flexible, highest performance interconnects in the industry. Cypress's portfolio of more than 250 synchronous and asynchronous interconnects range in densities from 8 Kb to 36 Mb and support speeds of up to 250 MHz.

Innovation



Our brand new family of interconnects, the FullFlex(TM) family, offers the highest performance and most advanced features available on the market.

- Lowest voltage ranges- 1.2V to 1.8V suiting all applications!
- Industries highest density (36M)
- Available in widest depth range from X18 to X72

DUAL PORT FAMILY

Cypress Semiconductors brings to you a quick reference guide to use our products and experience the best semiconductor interconnect solutions in Multi Port product range

Cypress is the industry's leading supplier of multi-port products, offering a Broad Portfolio of "Best in Class" High Performance products available today in the market.

The Cypress portfolio consists of more than 250 types of asynchronous and synchronous dual-ports, four-ports and FullFlex dual-ports.

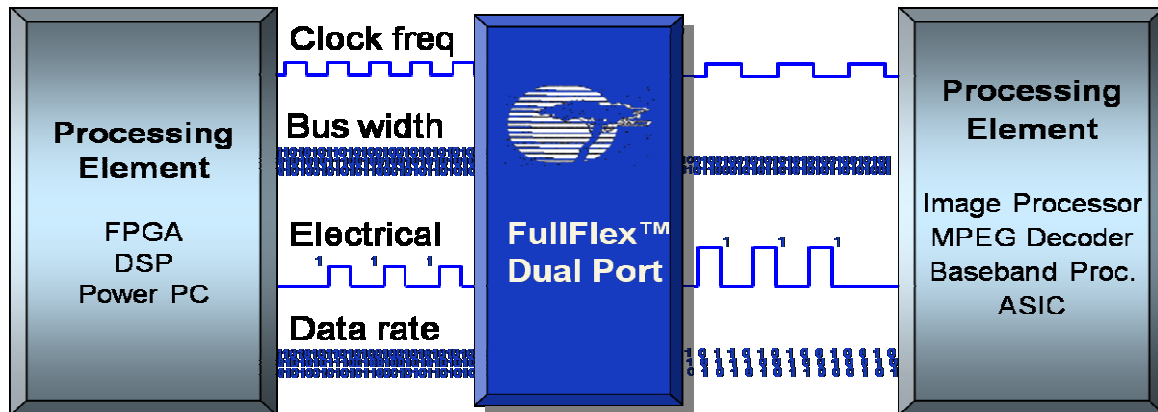
Cypress Dual Port Solutions lie at the heart of varied application segments like Communication, Medical & Instrumentation, Video & Imaging, Networking, Military Communications, Consumer Electronics and many more.

The FullFlex Family of Dual Port products developed in 90nm technology have advanced features such as built-in deterministic access control to manage address collisions during simultaneous access to the same memory location, Variable Impedance Matching (VIM)

to improve data transmission by matching the output driver impedance to the line impedance, and echo clocks to improve data transfer.

Cypress Dual Port solutions have the Goal of enriching the Customer Experience by Simplifying System Design and Reduce System Design Cycle Time.

Basic Block diagram for Dual Port product- Interprocessor connect



Our new range of Full Flex products which cater to the customers requiring high density products are available from 2 Mb to 36 Mb densities.

We at Cypress are committed to deliver the best solutions and maintain the highest levels of customer satisfaction. For over a decade we have delivered the best products to our Multi Port customers. We invite you to try our products and experience a world of difference!

CYPRESS V/S IDT CROSS REFERENCE

DETAILS			CYPRESS	IDT		Pin Com- patible
Density	Organization	Voltage	MPN	Part Number	MPN	
8K	X8	5V	CY7C130-55PC	7130	IDT7130SA55P, IDT7130LA55P	Y
8K	X8	5V	CY7C131-25JXC		IDT7130LA25J	Y
8K	X8	5V	CY7C131-25JXCT		IDT7130LA25J8	Y
8K	X8	5V	CY7C131-55JXC		IDT7130SA55J	Y
8K	X8	5V	CY7C131-55JXCT		IDT7130SA55J8	Y
8K	X8	5V	CY7C131-55JXIT		IDT7130SA55JI8	Y
8K	X8	5V	CY7C131-25NC		IDT7130L25TF	Y
8K	X8	5V	CY7C131-55NC		IDT7130L55TF	Y
8K	X8	5V	CY7C131-25NXC		IDT7130L25TF	Y
8K	X8	5V	CY7C131-25NXCT		IDT7130L25TF8	Y
8K	X8	5V	CY7C131-55NXC		IDT7130L55TF	Y
8K	X8	5V	CY7C131-55NXCT		IDT7130L55TF8	Y
8K	X8	5V	CY7C131-55JC		IDT7130LA25J	Y

CYPRESS V/S IDT CROSS REFERENCE

DETAILS			CYPRESS	IDT		Pin Com- patible
Density	Organization	Voltage	MPN	Part Num- ber	MPN	
16K	X8	5V	CY7C136-25JXC	71321	IDT71321SA25J	Y
16K	X8	5V	CY7C136-25JXCT		IDT71321SA25J8	Y
16K	X8	5V	CY7C136-55JXC		IDT71321SA55J	Y
16K	X8	5V	CY7C136-55JXCT		IDT71321SA55J8	Y
16K	X8	5V	CY7C136-25NC		IDT71321L25TF	Y
16K	X8	5V	CY7C136-55NC		IDT71321L55TF	Y
16K	X8	5V	CY7C136-25NXC		IDT71321L25TF	Y
16K	X8	5V	CY7C136-55NXC		IDT71321L55TF	Y
16K	X8	5V	CY7C136-55NXCT		IDT71321L55TF8	Y
16K	X8	5V	CY7C146-55JXC		71421	IDT71421SA55J
16K	X8	5V	CY7C146-55JXCT	IDT71421SA55J8		Y
16K	X8	5V	CY7C136-55JC	IDT71421SA55J		Y
32K	X8	5V	CY7C135-15JXC	7134	IDT7134SA20J	Y
32K	X8	5V	CY7C138-25JXC			
64K	X9	3.3V	CY7C09159AV-12AXC	70V9159	IDT70V9159L9PF	Y
64K	X9	3.3V	CY7C09159AV-9AXC		IDT70V9159L9PF	Y
64K	X18	5V	CY7C0241-15AXC	7034	IDT7034S15PF	Y
64K	X18	5V	CY7C0241-15AXCT		IDT7034S15PF8	Y
64K	X18	5V	CY7C0241-25AXC		IDT7034S20PF	Y
64K	X18	5V	CY7C0241-25AXCT		IDT7034S20PF8	Y
64K	X16	3.3V	CY7C024AV-20AXC	70V24	IDT70V24S20PF	Y
64K	X16	3.3V	CY7C024AV-25AXC		IDT70V24S25PF	Y
64K	X16	3.3V	CY7C024AV-25AXCT		IDT70V24S25PF8	Y
64K	X16	3.3V	CY7C024AV-20AXI		IDT70V24S20PFI	Y
64K	X16	3.3V	CY7C024AV-25AXI		IDT70V24S20PFI	Y
64K	X16	3.3V	CY7C024AV-25ACT		IDT70V24S25PF8	Y
64K	X16	3.3V	CY7C024-15AXC		7024	IDT7024S15PF
64K	X16	3.3V	CY7C024-15AXCT	IDT7024S15PF8		Y
64K	X16	3.3V	CY7C024-25AXC	IDT7024S25PF		Y
64K	X16	3.3V	CY7C024-25AXCT	IDT7024S25PF8		Y
64K	X16	3.3V	CY7C024-55AXC	IDT7024S55PF		Y
64K	X16	3.3V	CY7C024-55AXCT	IDT7024S55PF8		Y
64K	X16	3.3V	CY7C024-25AXI	IDT7024S25PFI		Y
64K	X16	3.3V	CY7C024-55JXC	IDT7024S55J		Y
64K	X16	3.3V	CY7C024-55JXCT	IDT7024S55J8		Y
64K	X16	3.3V	CY7C024-55AC	IDT7024S55PF		Y
64K	X16	3.3V	CY7C024-55ACT	IDT7024S55PF8		Y

CYPRESS V/S IDT CROSS REFERENCE

DETAILS			CYPRESS	IDT		Pin Com- patible	
Density	Organization	Voltage	MPN	Part Number	MPN		
64K	X18	3.3V	CY7C09349AV-12AXC	70V9349	IDT70V9349L12PF	Y	
64k	X18	3.3V	CY7C09349AV-9AXC		IDT70V9349L9PF	Y	
64K	X8	3.3V	CY7C144AV-25AXC	70V05	IDT70V05S25J	Y	
64K	X8	3.3V	CY7C144AV-25AXCT		IDT70V05S25J8	Y	
64K	X8	3.3V	CY7C144AV-25AC		IDT70V05S25J	Y	
64K	X8	3.3V	CY7C144AV-25ACT		IDT70V05S25J8	Y	
64K	X8	5V	CY7C144-15AXC	7005	IDT7005S15PF	Y	
64K	X8	5V	CY7C144-15AXCT		IDT7005S15PF8	Y	
64K	X8	5V	CY7C144-25AXC		IDT7005S25PF	Y	
64K	X8	5V	CY7C144-55AXC		IDT7005S55PF	Y	
64K	X8	5V	CY7C144-15AXI				
64K	X8	5V	CY7C144-15AXIT				
64K	X8	5V	CY7C144-55JXC		IDT7005S55J	Y	
64K	X8	5V	CY7C144-55JXCT		IDT7005S55J8	Y	
64K	X8	5V	CY7C144-25AC		IDT7005S25PF	Y	
64K	X8	5V	CY7C144-55AC		IDT7005S55PF	Y	
64K	X8	5V	CY7C144-55JCT		IDT7005S55J8	Y	
64K	X9	5V	CY7C145-15AXC		7015	IDT7015S15PF	Y
64K	X9	5V	CY7C145-15AXCT			IDT7015S15PFI	Y
128K	X8	3.3V	CY7C006AV-25AXC		70V06	IDT70V06S25PF	N
128K	X8	3.3V	CY7C006AV-25AC	IDT70V06S25PF		N	
128K	X8	3.3V	CY7C006A-15AXC	IDT70V06L15PF		N	
128K	X8	3.3V	CY7C006A-15AXCT	IDT70V06L15PF8		N	
128K	X8	3.3V	CY7C006A-20AXC	IDT70V06S20PF		N	
128K	X8	3.3V	CY7C006A-20AXCT	IDT70V06S20PF8		N	
128K	X8	3.3V	CY7C006A-20AXI	IDT70V06S20PFI		N	
128K	X8	3.3V	CY7C006A-20JXC	IDT70V06S20J		N	
128K	X8	3.3V	CY7C006A-20JXCT	IDT70V06S20J8		N	
128K	X8	3.3V	CY7C006A-20AC	IDT70V06S20PF		N	
128K	X8	3.3V	CY7C006A-WW14				
128K	X18	5V	CY7C0251-15AXC	7035	IDT7035S15PF	Y	
128K	X16	3.3V	CY7C025AV-20AXC	70V25	IDT70V25S20PF	Y	
128K	X16	3.3V	CY7C025AV-25AXC		IDT70V25S25PF	Y	
128K	X16	3.3V	CY7C025AV-25AXCT		IDT70V25S25PF8	Y	
128K	X16	3.3V	CY7C025AV-25AXI		IDT70V25S25PFI	Y	
128K	X16	3.3V	CY7C025AV-25AC		IDT70V25S20PF	Y	
128K	X16	3.3V	CY7C025AV-25ACT		IDT70V25S25PF8	Y	

CYPRESS V/S IDT CROSS REFERENCE

DETAILS			CYPRESS	IDT		Pin Com- patible
Density	Organization	Voltage	MPN	Part Number	MPN	
128K	X16	5V	CY7C025-25AXC	7025	IDT7025S25PF	Y
128K	X16	5V	CY7C025-25AXCT		IDT7025S25PF8	Y
128K	X16	5V	CY7C025-55AXC		IDT7025S55PF	Y
128K	X16	5V	CY7C025-25AXI		IDT7025L25PFI	Y
128K	X16	5V	CY7C025-25AC		IDT7025S25PF	Y
128K	X16	5V	CY7C025-55AC		IDT7025S55PF	Y
128K	X18	3.3V	CY7C09359AV-9AXC	70V9359	IDT70V9359L9PF	Y
128K	X18	3.3V	CY7C09369V-12AXC		IDT70V9359L9PF	Y
128K	X18	3.3V	CY7C09369V-9AXC		IDT70V9359L9PF	Y
128K	X18	3.3V	CY7C09369V-9AXCT		IDT70V9359L9PF8	Y
256K	X8	5V	CY7C007A-20JXC	7007	IDT7007S20J	Y
256K	X9	3.3V	CY7C09179V-12AXC			
256K	X9	3.3V	CY7C09179V-6AXC			
256K	X9	3.3V	CY7C09179V-12AC			
256K	X16	3.3V	CY7C026AV-20AXC	70V261	IDT70V261S20PF	Y
256K	X16	3.3V	CY7C026AV-25AXC		IDT70V261S25PF	Y
256K	X16	3.3V	CY7C026AV-25AXI		IDT70V261S25PFI	Y
256K	X16	3.3V	CY7C026AV-25AC		IDT70V261S25PF	Y
256K	X16	3.3V	CY7C026AV-25AI		IDT70V261S25PFI	Y
256K	X16	3.3V	CY7C09269V-12AXC	70V9269	IDT70V9269L9PRF	N
256K	X16	3.3V	CY7C09269V-7AXC			
256K	X16	3.3V	CY7C09269V-9AXC		IDT70V9269L9PRF	N
256K	X16	3.3V	CY7C09269V-12AC		IDT70V9269L9PRF	N
256K	X16	3.3V	CS5916AA			
256K	X16	5V	CY7C026A-15AXC	70261	IDT70261S15PF	Y
256K	X16	5V	CY7C026A-20AXC		IDT70261S20PF	Y
256K	X16	5V	CY7C026A-20AXCT		IDT70261S20PF8	Y
256K	X16	5V	CY7C026A-20AC			
512K	X8	3.3V	CY7C008V-25AXC	70V08	IDT70V08L25PF	N
512K	X8	3.3V	CY7C09089V-12AXC	70V9089	IDT70V9089L12PF	N
512K	X8	3.3V	CY7C09089V-12AC		IDT70V9089L12PF	N
512K	X8	5V	CY7C008-15AXC	7008	IDT7008S20PF	Y

CYPRESS V/S IDT CROSS REFERENCE

DETAILS			CYPRESS	IDT		Pin Com- patible
Density	Organization	Voltage	MPN	Part Num- ber	MPN	
512K	X16	3.3V	CY7C027V-15AXC	70V27	IDT70V27L15PF	N
512K	X16	3.3V	CY7C027V-15AXCT		IDT70V27L15PF8	N
512K	X16	3.3V	CY7C027V-20AXC		IDT70V27L20PF	N
512K	X16	3.3V	CY7C027V-25AXC		IDT70V27L25PF	N
512K	X16	3.3V	CY7C027V-15AXIT		IDT70V27L20PFI8	N
512K	X16	3.3V	CY7C027V-20AC		IDT70V27L20PF	N
512K	X16	3.3V	CY7C027V-25AC		IDT70V27L20PFI	N
512K	X16	3.3V	CY7C027V-25AI		IDT70V27L25PFI8	N
512K	X16	3.3V	CY7C09279V-12AXC	70V9279	IDT70V9279L12PRF	N
512K	X16	3.3V	CY7C09279V-7AXC			
512K	X16	3.3V	CY7C09279V-7AC			
512K	X16	5V	CY7C027-20AXC	7027	IDT7027L20PF	Y
512K	X16	5V	CY7C027-20AXCT		IDT7027L20PF8	Y
512K	X16	5V	CY7C027-20ACT		IDT7027L20PF8	Y
512K	X18	3.3V	CY7C09379V-12AXC	70V9379	IDT70V9379L12PRF	N
512K	X18	3.3V	CY7C09379V-12AXCT		IDT70V9379L12PRF8	N
512K	X18	3.3V	CY7C09379V-12ACT		IDT70V9379L12PRF9	N
512K	X36	3.3V	CY7C056V-15AXC	70V657	IDT70V657S12DR	N
512K	X36	3.3V	CY7C056V-15AC		IDT70V657S12DR	N
512K	X36	3.3V	CY7C09569V-100AXC	70V3569	IDT70V3569L5DR	N
512K	X36	3.3V	CY7C09569V-100BBC			
1M	X8	3.3V	CY7C009V-15AXC	70V09	IDT70V09L15PF	Y
1M	X8	3.3V	CY7C009V-25AXC		IDT70V09L20PF	Y
1M	X8	3.3V	CY7C009V-20AXI		IDT70V09L20PFI	Y
1M	X8	3.3V	CY7C009V-15AC		IDT70V09L15PF	Y
1M	X8	3.3V	CY7C009V-20AI		IDT70V09L20PFI	Y
1M	X8	3.3V	CY7C09099V-7AI	70V9099	IDT70V9099L9PFI	N
1M	X8	3.3V	CY7C09099V-12AXC		IDT70V9099L12PF	N
1M	X8	3.3V	CY7C09099V-6AXC		IDT70V9099L7PF	N
1M	X8	3.3V	CY7C09099V-7AXI		IDT70V9099L9PFI	N
1M	X8	5V	CY7C009-15AXC	7009	IDT7009L15PF	Y
1M	X9	3.3V	CY7C019V-25AXC	70V19	IDT70V19L20PF	Y
1M	X9	3.3V	CY7C09199V-9AXC	70V9199	IDT70V9199L9PF	N
1M	X16	3.3V	CY7C028V-15AXC	70V28	IDT70V28L15PF	Y
1M	X16	3.3V	CY7C028V-20AXC		IDT70V28L20PF	Y
1M	X16	3.3V	CY7C028V-20AXCT		IDT70V28L20PF8	Y
1M	X16	3.3V	CY7C028V-25AXC		IDT70V28L25PF	Y
1M	X16	3.3V	CY7C028V-15AXI		IDT70V28L15PF	Y

Cypress v/s IDT Cross Reference

DETAILS			CYPRESS	IDT		Pin Com- pati- ble
Density	Organization	Voltage	MPN	Part Number	MPN	
1M	X16	3.3V	CY7C028V-15AXIT	70V28	IDT70V28L15PF8	Y
1M	X16	3.3V	CY7C028V-20AXI		IDT70V28L20PFI	Y
1M	X16	3.3V	CY7C028V-15AC		IDT70V28L15PF	Y
1M	X16	3.3V	CY7C028V-20ACT		IDT70V28L20PF8	Y
1M	X16	3.3V	CY7C028V-25AC		IDT70V28L25PF	Y
1M	X16	3.3V	CY7C028V-20AI		IDT70V28L20PFI	Y
1M	X16	3.3V	CY7C09289V-12AXC	70V9289	IDT70V9289L12PRF	N
1M	X16	3.3V	CY7C09289V-9AXC		IDT70V9289L9PRF	N
1M	X16	3.3V	CY7C09289V-9AXI		IDT70V9289L9PRFI	N
1M	X16	3.3V	CY7C09289V-9AC		IDT70V9289L9PRF	N
1M	X16	3.3V	CY7C09289V-9AI	IDT70V9289L9PRFI	N	
1M	X16	5V	CY7C028-15AXC	7028	IDT7028L15PF	Y
1M	X16	5V	CY7C028-15AXI		IDT7028L20PFI	Y
1M	X16	5V	CY7C028-15AC		IDT7028L15PF	Y
1M	X16	5V	CY7C028-15AI		IDT7028L20PFI	Y
1M	X18	3.3V	CY7C038V-20AXI	70V38	IDT70V38L20PFI	Y
1M	X18	3.3V	CY7C038V-20AI		IDT70V38L20PFI	Y
1M	X18	3.3V	CY7C09389V-12AXC	70V3389	IDT70V3389S6BF, IDT70V3389S6PRF	N
1M	X18	3.3V	CY7C09389V-7AXC		IDT70V3389S6BF, IDT70V3389S6PRF	N
1M	X18	3.3V	CY7C09389V-9AXC		IDT70V3389S6BF, IDT70V9389L9PRF	N
1M	X18	3.3V	CY7C09389V-9AXI		IDT70V3389S5PRFI, IDT70V9389L9PRFI	N
1M	X18	3.3V	CY7C09389V-12AC		IDT70V3389S6BF, IDT70V3389S6PRF	N
1M	X18	3.3V	CY7C09389V-9AC		IDT70V3389S6BF, IDT70V9389L9PRF	N
1M	X18	3.3V	CY7C09389V-9AI	IDT70V3389S5PRFI, IDT70V9389L9PRFI	N	
1M	X18	3.3V	CY7C0430CV-133BGI			
1M	X36	3.3V	CY7C057V-12AXC	70V657	IDT70V657S12DR	N
1M	X36	3.3V	CY7C057V-15AXC		IDT70V657S15DR	N
1M	X36	3.3V	CY7C057V-15AXCT		IDT70V657S15DR8	N
1M	X36	3.3V	CY7C057V-15AXI		IDT70V657S15DRI	N
1M	X36	3.3V	CY7C057V-12BBC		IDT70V657S12BC	N
1M	X36	3.3V	CY7C057V-15BBC		IDT70V657S15BC	N
1M	X36	3.3V	CY7C057V-15BBI		IDT70V657S15BCI	N
1M	X36	3.3V	CY7C057V-12AC		IDT70V657S12BC	N

Cypress v/s IDT Cross Reference

DETAILS			CYPRESS	IDT		Pin Com- patible
Density	Organization	Voltage	MPN	Part Number	MPN	
1M	X36	3.3V	CY7C09579V-100AXC	70V3579	IDT70V3579L5DR	N
1M	X36	3.3V	CY7C09579V-83AXC		IDT70V3579L6DR	N
1M	X36	3.3V	CY7C09579V-100BBC		IDT70V3579L5BF	N
1M	X36	3.3V	CY7C09579V-83BBC		IDT70V3579L6BF	N
1M	X36	3.3V	CY7C09579V-100AC		IDT70V3579L5DR	N
1M	X36	3.3V	CY7C09579V-83AC		IDT70V3579L6DR	N
2M	X18	1.8V	CYD02S18V-133BBC			
2M	X18	3.3V	CY7C0831AV-133BBXI			
2M	X18	3.3V	CY7C0831AV-133BXI			
2M	X36	3.3V	CYD02S36V-167BBXC			
2M	X36	3.3V	CY7C0851V-167BBC	70V3589	IDT70V3589S166BC	N
4M	X18	3.3V	CYD04S18V-167BBC			
4M	X36	3.3V	CY7C0852V-133BBC	70V3599	IDT70V3599S133BC	N
4M	X36	3.3V	CY7C0852V-133BBCT		IDT70V3599S133BC8	N
4M	X36	3.3V	CY7C0852V-167BBC		IDT70V3599S166BC	N
4M	X36	3.3V	CY7C0852V-133BBI			
4M	X36	3.3V	CY7C0852V-WW14			
4M	X72	3.3V	CYD04S72V-133BBC			
4M	X72	3.3V	CYD04S72V-167BBC			
4M	X72	3.3V	CYD04S72V-133BBI			
9M	X36	3.3V	CY7C0853V-100BBC			
9M	X36	3.3V	CY7C0853V-133BBC			
9M	X36	3.3V	CY7C0853V-133BBI			
9M	X72	3.3V	CYD09S72V-133BBC			
9M	X72	3.3V	CYD09S72V-167BBC			
9M	X72	3.3V	CYD09S72V-133BBI			

Cypress v/s IDT Cross Reference

DETAILS			CYPRESS	IDT		Pin Com- patible
Density	Organization	Voltage	Generic Part Number	Part Number	MPN	
9M	X72	1.8V	CYD09S72V18		Products below 1.8V not available	
9M	X72	1.2V	CYD09S72V12			
9M	X36	1.8V	CYD09S36V18	70P3517		
9M	X36	1.2V	CYD09S36V12			
9M	X18	1.8V	CYD09S18V18	70P3337		
9M	X18	1.2V	CYD09S18V12			
18M	X72	3.3V	CYD18S72V-100BBC			
18M	X72	3.3V	CYD18S72V-133BBC			
18M	X72	3.3V	CYD18S72V-100BBI			
18M	X72	3.3V	CYD18S72V-133BBI			
18M	X72	1.8V	CYD18S72V18			
18M	X72	1.2V	CYD18S72V12			
18M	X36	1.8V	CYD18S36V18	70P3537		
18M	X36	1.2V	CYD18S36V12			
18M	X18	1.8V	CYD18S18V18	70P3307		
18M	X18	1.2V	CYD18S18V12			
36M	X72	1.8V	CYD36S72V18			
36M	X72	1.2V	CYD36S72V12			
36M	X36	1.8V	CYD36S36V18			
36M	X36	1.2V	CYD36S36V12			
36M	X18	1.8V	CYD36S18V18			
36M	X18	1.2V	CYD36S18V12			

CONTACT
CYPRESS
SEMICONDUCTORS

MRINMOY CHAKRABORTY
BUSINESS DEVELOPMENT MANAGER, SPCM
myv@cypress.com

HARSHA VENKATESH
MARKETING, SPCM
hkv@cypress.com