



CYPRESS EMBEDDED IN TOMOPROW

Table 1 lists the CYAT81X TrueTouch touchscreen controllers.

Table 1. Ordering Information^[2]

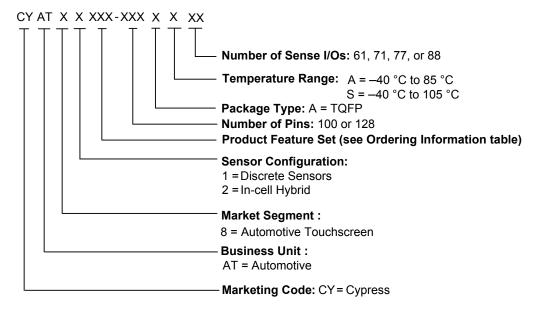
Family	MPN	Number of Sense Pins	Number of Fingers	CapSense Buttons	Water Rejection	Thin Glove Support	Display Armor	Gestures	Thick Overlay/Thick Glove Support	5-V TX	Package
Low Cost	CYAT81682-100AA61	61	10	✓	✓	✓	✓	-	-	-	100 TQFP
	CYAT81682-100AS61	61	10	√	✓	✓	✓	-	-	—	100 TQFP
	CYAT81682-100AA71	71	10	✓	~	~	✓	-	-	—	100 TQFP
	CYAT81682-100AS71	71	10	✓	~	~	✓	-	-	—	100 TQFP
LOW COSt	CYAT81682-100AA77	77	10	✓	~	~	✓	-	-	—	100 TQFP
	CYAT81682-100AS77	77	10	✓	✓	✓	~	-	-	-	100 TQFP
	CYAT81682-128AA88	88	10	✓	✓	✓	~	-	-	-	128 TQFP
	CYAT81682-128AS88	88	10	✓	✓	✓	~	-	-	-	128 TQFP
	CYAT81685-100AA61	61	10	✓	✓	✓	✓	✓	-	_	100 TQFP
	CYAT81685-100AS61	61	10	✓	✓	✓	✓	✓	-	_	100 TQFP
	CYAT81685-100AA71	71	10	✓	✓	✓	✓	✓	-	_	100 TQFP
Orationa	CYAT81685-100AS71	71	10	✓	✓	✓	~	✓	-	-	100 TQFP
Gestures	CYAT81685-100AA77	77	10	✓	✓	✓	~	✓	-	-	100 TQFP
	CYAT81685-100AS77	77	10	✓	✓	✓	✓	✓	-	_	100 TQFP
	CYAT81685-128AA88	88	10	✓	✓	✓	✓	✓	-	_	128 TQFP
	CYAT81685-128AS88	88	10	✓	✓	✓	✓	✓	-	_	128 TQFP
Base	CYAT81688-100AA61	61	10	✓	✓	✓	✓	✓	✓	~	100 TQFP
	CYAT81688-100AS61	61	10	✓	✓	✓	✓	✓	✓	~	100 TQFP
	CYAT81688-100AA71	71	10	✓	✓	✓	✓	✓	✓	~	100 TQFP
	CYAT81688-100AS71	71	10	✓	~	✓	✓	✓	✓	~	100 TQFP
	CYAT81688-100AA77	77	10	✓	✓	✓	✓	~	✓	✓	100 TQFP
	CYAT81688-100AS77	77	10	✓	✓	✓	✓	~	✓	✓	100 TQFP
	CYAT81688-128AA88	88	10	~	~	✓	~	~	✓	~	128 TQFP
	CYAT81688-128AS88	88	10	~	~	~	~	~	✓	~	128 TQFP

Notes

All devices have the following base features: Water Rejection, DisplayArmor[™], AutoArmor[™], DualSense[™], CapSense buttons, Large Object Detection and Rejection, and Grip Suppression.



Ordering Code Definitions





Document History Page

Document Title: CYAT81X (61, 71, 77, 88 I/Os) Automotive TrueTouch [®] Multi-Touch All-Points Touchscreen Controller Datasheet Document Number: 002-04310					
Revision	ECN	Orig. of Change	Submission Date	Description of Change	
**	4988927	MANU	10/28/2015	New summary datasheet	
*A	5705461	AESATMP7	04/21/2017	Updated Cypress Logo and Copyright.	



Sales, Solutions, and Legal Information

Worldwide Sales and Design Support

Cypress maintains a worldwide network of offices, solution centers, manufacturer's representatives, and distributors. To find the office closest to you, visit us at Cypress Locations.

Products

ARM [®] Cortex [®] Microcontrollers	cypress.com/arm
Automotive	cypress.com/automotive
Clocks & Buffers	cypress.com/clocks
Interface	cypress.com/interface
Internet of Things	cypress.com/iot
Memory	cypress.com/memory
Microcontrollers	cypress.com/mcu
PSoC	cypress.com/psoc
Power Management ICs	cypress.com/pmic
Touch Sensing	cypress.com/touch
USB Controllers	cypress.com/usb
Wireless Connectivity	cypress.com/wireless

PSoC[®]Solutions

PSoC 1 | PSoC 3 | PSoC 4 | PSoC 5LP | PSoC 6

Cypress Developer Community

Forums | WICED IoT Forums | Projects | Video | Blogs | Training | Components

Technical Support

cypress.com/support

© Cypress Semiconductor Corporation, 2015-2017. This document is the property of Cypress Semiconductor Corporation and its subsidiaries, including Spansion LLC ("Cypress"). This document, including any software or firmware included or referenced in this document ("Software"), is owned by Cypress under the intellectual property laws and treaties of the United States and other countries worldwide. Cypress reserves all rights under such laws and treaties and other sont, except as specifically stated in this paragraph, grant any license under its patents, copyrights, trademarks, or other intellectual property rights. If the Software is not accompanied by a license agreement and you do not otherwise have a written agreement with Cypress governing the use of the Software, hen Cypress parents you a personal, non-exclusive, nontransferable license (without the right to sublicense) (1) under its copyright rights in the Software (a) for Software provided in source code form, to modify and reproduce the Software solely for use with Cypress hardware products, only internally within your organization, and (b) to distribute the Software in binary code form externally to end users (either directly or indirectly through resellers and distributors), solely for use on Cypress hardware product units, and (2) under those claims of Cypress' patents that are infringed by the Software (as provided by Cypress, unmodified) to make, use, distribute, and import the Software solely for use with Cypress hardware products. Any other use, reproduction, modification, translation, or compilation of the Software is prohibited.

TO THE EXTENT PERMITTED BY APPLICABLE LAW, CYPRESS MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARD TO THIS DOCUMENT OR ANY SOFTWARE OR ACCOMPANYING HARDWARE, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABLITY AND FITNESS FOR A PARTICULAR PURPOSE. To the extent permitted by applicable law, Cypress reserves the right to make changes to this document without further notice. Cypress does not assume any liability arising out of the application or use of any product or circuit described in this document. Any information provided in this document, including any sample design information or programming code, is provided only for reference purposes. It is the responsibility of the user of this document to properly design, program, and test the functionality and safety of any application made of this information and any resulting product. Cypress products are not designed, intended, or authorized for use as critical components in systems designed or intended for the operation of weapons, weapons systems, nuclear installations, life-support devices or systems, other medical devices or systems (including resuscitation equipment and surgical implants), pollution control or hazardous substances management, or other uses where the failure of the device or system could cause personal injury, death, or property damage ("Unintended Uses"). A critical component is any component of a device or system whose failure to perform can be reasonably expected to cause the failure of the device or system, or to affect its safety or effectiveness. Cypress is not liable, in whole or in part, and you shall and hereby do release Cypress from any claim, damage, or other liability arising from or related to any Unintended Uses of Cypress products.

Cypress, the Cypress logo, Spansion, the Spansion logo, and combinations thereof, WICED, PSoC, CapSense, EZ-USB, F-RAM, and Traveo are trademarks or registered trademarks of Cypress in the United States and other countries. For a more complete list of Cypress trademarks, visit cypress.com. Other names and brands may be claimed as property of their respective owners.

Document Number: 002-04310 Rev. *A