



STANDARD Micro Controller Specification

NC41120-0045 USB Interface Controller Chip

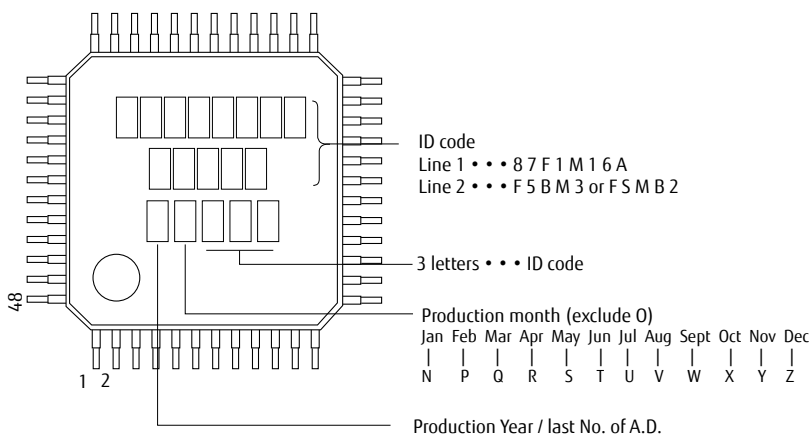
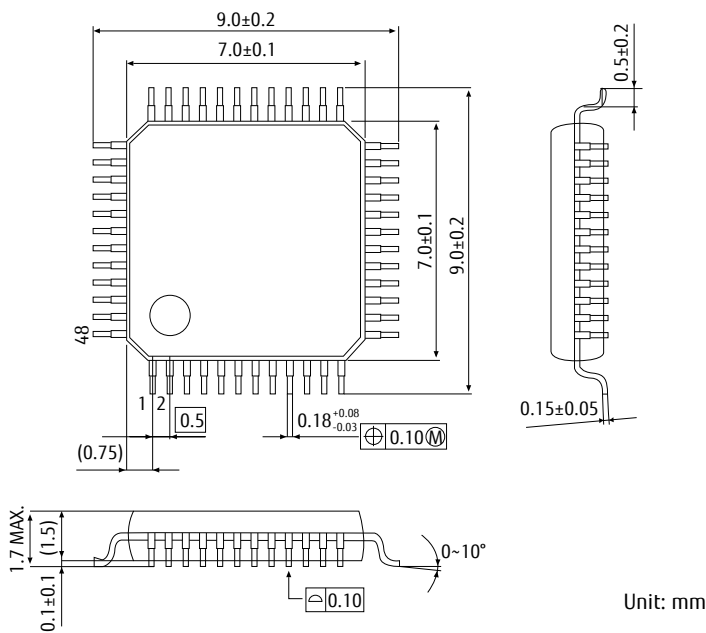
4- and 7-Wire Summary Sheet



■ FEATURES

- High quality and reliability touch panel controller
- USB 2.0 Interface
- Used to control the 4- and 7-Wire resistive touch panels
- Moisture sensitivity level 3
- RoHS compliant
- Replaces NC41120-0017 and NC41120-0018

■ CONSTRUCTION



USB Interface Controller Chip

■ INPUT / OUTPUT TERMINAL SUMMARY

Pin No	Name	Function Summary	I/O
1	FSDL	Choose flash rewriting mode PullDown = download-mode, PullUp = Program-mode	I
2	RESET	Reset input terminal	I/O
3	-	Reserved (pull down)	I
4	-	Reserved	O
5	VSS1	Power supply input terminal (0V)	-
6	CF1	Oscillator input terminal	I
7	CF2	Oscillator output terminal	O
8	VDD1	Power supply input terminal (5V)	-
9	-	Reserved	O
10	-	Reserved	O
11	-	Reserved	O
12	-	Reserved	O
13	-	Reserved	O
14	-	Reserved	O
15	-	Reserved	O
16	-	Reserved	O
17	PSW1	Panel driving terminal Nch	I
18	PSW2	Panel driving terminal Pch	I
19	VDD2	Power supply input terminal (5V)	-
20	VSS2	Power supply input terminal (0V)	-
21	PSW3	Panel driving terminal Nch	I
22	PSW4	Panel driving terminal Pch	I
23	PSW0	Panel pull down terminal Nch	I
24	EMSR1	AD converter for voltage measurement	I
25	EMSR2	AD converter for voltage measurement	I
26	EMSR3	AD converter for voltage measurement	I
27	— 4-wire panel	Reserved	O
	EMSR4: 7-wire panel	AD converter for voltage measurement	I
28	PMSR	AD converter for voltage measurement	I
29	PID1	PID setting terminal	I
30	PID2	PID setting terminal	I
31	PID3	PID setting terminal	I
32	PID4	PID setting terminal	I
33	PID5	PID setting terminal	I
34	PID6	PID setting terminal	I
35	PINT	Interruption terminal for suspend cancellation	I
36	DPUP	Terminal for D+ pull-up control	I

USB Interface Controller Chip

Pin No	Name	Function Summary	I/O
37	D-	USB input-output terminal	I/O
38	D+	USB input-output terminal	I/O
39	VDD3	USB power supply (reserved)	-
40	VSS3	Power supply input terminal (0V)	-
41	UFILT	USB filter circuit connection	I
42	OS3	Terminal for setting panel origin: X (Y) coordinate inversion	I
43	OS2	Terminal for setting panel origin: Y (X) coordinate inversion	I
44	OS1	Terminal for setting panel origin: X Y coordinate exchange	I
45	DBG	On chip debugger terminal	-
46	-	Reserved	O
47	-	Reserved	O
48	LINE	Panel select terminal (H: 4-wire, L: 7-wire)	I

Complete specification document is available on request for customers with whom we have an approved NDA in place.

Fujitsu Components International Headquarter Offices

<p>Japan Fujitsu Component Limited Gotanda-Chuo Building 3-5, Higashigotanda 2-chome, Shinagawa-ku Tokyo 141, Japan Tel: (81-3) 5449-7010 Fax: (81-3) 5449-2626 Email: promothq@ft.ed.fujitsu.com Web: www.fcl.fujitsu.com</p>	<p>Europe Fujitsu Components Europe B.V. Diamantlaan 25 2132 WV Hoofddorp Netherlands Tel: (31-23) 5560910 Fax: (31-23) 5560950 Email: info@fceu.fujitsu.com Web: emea.fujitsu.com/components/</p>
<p>North and South America Fujitsu Components America, Inc. 250 E. Caribbean Drive Sunnyvale, CA 94089 U.S.A. Tel: (1-408) 745-4900 Fax: (1-408) 745-4970 Email: components@us.fujitsu.com Web: http://www.fujitsu.com/us/services/edevices/components/</p>	<p>Asia Pacific Fujitsu Components Asia Ltd. 102E Pasir Panjang Road #01-01 Citilink Warehouse Complex Singapore 118529 Tel: (65) 6375-8560 Fax: (65) 6273-3021 Email: fcal@fcal.fujitsu.com Web: http://www.fujitsu.com/sg/services/micro/components/</p>

©2013 Fujitsu Components America, Inc. All rights reserved. All trademarks or registered trademarks are the property of their respective owners.

Fujitsu Components America or its affiliates do not warrant that the content of datasheet is error free. In a continuing effort to improve our products Fujitsu Components America, Inc. or its affiliates reserve the right to change specifications/datasheets without prior notice.
 Rev. January 7, 2013.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [LCD Touch Panels](#) category:

Click to view products by [Fujitsu](#) manufacturer:

Other Similar products are found below :

[98-0003-2669-8](#) [CABLE/RTP/USB](#) [98-0003-2933-8](#) [17-8041-226](#) [17-8041-227](#) [CABLE/RTP/RS232](#) [N010-0557-T002](#) [N010-0557-T011](#)
[NA5-15W101B-V1](#) [LCDAL04-0430TL0NCNTBR1.0](#) [TP01106W-4KB](#) [FTAS00-15AN-4](#) [FTAS00-12.1AW-4A](#) [17-8021-227](#) [17-8031-205](#)
[17-8031-227](#) [17-8091-203](#) [17-8421-205](#) [17-8421-227](#) [17-8441-205](#) [17-8511-205](#) [17-8541-205](#) [17-8541-226](#) [17-8891-227](#) [17-8901-226](#) [98-](#)
[0003-2185-5](#) [98-0003-2617-7](#) [98-0003-2919-7](#) [98-0003-2955-1](#) [98-0003-3140-9](#) [98-0003-3190-4](#) [98-0003-3505-3](#) [98-1100-0606-5](#) [98-1100-](#)
[0638-8](#) [EA TOUCH240-4](#) [N010-0519-T742](#) [N010-0554-T043](#) [N010-0554-T703](#) [EA TOUCH102-1](#) [EA TOUCH128-1](#) [EA TOUCH128-2](#)
[EA TOUCH160-1](#) [LCD-OLINUXINO-10CTS](#) [TS-320240BRNO](#) [FTAS00-104A5](#) [FTAS00-104AS4](#) [FTAS00-121A4](#) [FTAS00-121A5](#)
[FTAS00-150A5](#) [FTAS225-57AN](#)