

ASI-T-280DA216T/AW

,WHP	*HQHUDO IHDWXUH	5HPDUN
02'/(6,=(
/&' 7\SH	7)7 75\$160,66,9(
9LHZLQJ 'LUHFWLRQ		2¶&ORFN
2XWVLGH GLPHQVLRQV : + 7		PP
\$FWLYH \$UHD : +		PP
1XPEHU RI 3L[HOV	5 * %	
'ULYHU ,&	67 9	
&RORUV	.	
,QWHUIDFH 7\SH	0&8 õ } ,QWHUIDFH	
,QSW 9ROWDJH		9

& 217(176

*HQHUDO 'HVFULSWLRQ

\$EVROXWH 0D[LPXP 5DWLQJV

(OHFWULFDO 6SHFLILFDWLRQ

/& 0 6WUXFWXUH FKDUW

,QWHUIDFH 'HVFULSWLRQ

2SWLFD0 6SHFLILFDWLRQ

/& 0 ,QVSHFWLRQ VWDQGDUG

5(/,\$%,/,7<7(67 VWDQGDUG

6WRUDJH 3UHFDXWLRQV

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*(1(5\$/ ,1)250\$7,21

,WHP	*HQHUDO IHDWXUH	5HPDUN
02'/((6,=(
/' 7\SH	7)7 75\$160,66,9(
9LHZLQJ 'LUHFWLRQ		2¶&ORFN
2XWVLGH GLPHQVLRQV : + 7		PP
\$FWLYH \$UHD : +		PP
1XPEHURI 3L[HOV	5 * %	
'ULYHU ,& ,&	67 9	
&RORUV	.	
,QWHUIDFH 7\SH	0 & 8 %LW%LW	
,QSXW 9ROWDJH		9

\$EVROXWH 0D[LPXP 5DWLQJV

3DUDPHWHU	6\PERO	0LQ	0D[8QLW
6XSSO\ 9ROWDJH	IRU /RJJLF 9GG			9
,QSXW 9ROWDJH	9LQ		9GG	9
2SHUDWLQJ 7HPSH	SHUDWXUH 7RS			&
6WRUDJH 7HPSH	SHUDWXUH 7VW			&
+XPLGLW\	5+		0D[W	5+

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((&75, &\$/&+\$5\$&7(5,67, &6
'&&KDUDFWHULVWLFV

3DUDPHWHU	6\PERO 0LQ	7\SH	0D[8QLW
6XSSO\ 9ROWDJH	IRGG9V			9
, QSXW & XUUH	QW, GG	7 %'	7 %'	P\$
, QSXW 9ROWDJH	+ / 9RYHO	, 2 9&	, 2 9&	9
, QSXW 9ROWDJH	/ / H9LHO		, 2 9&	9
2XWSXW 9ROWDJH	+ 9RYHO	, 2 9&	, 2 9&	9
2XWSXW 9ROWDJH	/ 9RYHO		, 2 9&	9

/& 0&KDUDFWHULVWLFV

, WHP	6\PERO 0LQ	7\SH	0D[8QLW	&RQGLWLRQ
)RUZDYRGO WDJH	9I			9	, I P\$ /('
/XPLQDQFH	/Y			FG P	
1XPERU('				3LHFH	
&RQQHFWLRQ	P&GH	3DUDOOHO			
8QLIRUPLW\	\$YJ				, I P\$ /('

, QWHUIDFH 'HVFULSWLRQ

1 R	6 < 0 % 2 / , 2	'HVFULSWLRQ
	' % ' %	<i>Data bus input .</i>
	* 1 '	<i>Ground pin for analog circuits.</i>
	, 2 9 & &	LCD display derive gate supply voltage
	& 6	<i>A chip select signal.</i>
	5 6	<i>A register select signal.</i>
	: 5	<i>This serves as a write strobe signal.</i>
	5 '	<i>This serves as a read strobe signal.</i>
	1 &	1 &
	; / 1 &	TP control
	< 8 <	TP control
	; 5 1 &	TP control
	< ' <	TP control
	\$	<i>LED power anode.</i>
	.	<i>LED power cathode.</i>
	.	<i>LED power cathode.</i>
	.	<i>LED power cathode.</i>
	.	<i>LED power cathode.</i>
	1 &	1 &
	' %	<i>Data bus input .</i>
	' % ' %	<i>Data bus input .</i>
	5 (6 (7	<i>This signal will reset the device and must be applied to properly initialize the chip</i>
	9 & &	<i>Power supply for interface logic circuit. 2.8V</i>
	9 & &	<i>Power supply for interface logic circuit. 2.8V</i>
	* 1 '	<i>Ground pin for analog circuits.</i>
	' % ' %	<i>Data bus input .</i>

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2SWLFDO 6SHFLILFDWLRQ

/' \$QJOH SDUDPHWHU

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5HVSRQVH WLPH LV WKH WLPH UHTXLUHG IRU WKH GLVSOD
EODFN LV LQ WLPH UDQGUR EODFN
ZKLWH DOOLWLPH I IRUGGLWLRQ IRU PDWLRQ

&RQWU DWMLR &5

&RQWU DWMLR &5 GHILQHWKHPDWLV DOO\

6XUIDFH /XPLQDQFH ZLWK DOO ZKLWH SL[HOV
&RQWUDVW DWLR
6XUIDFH /XPLQDQFH ZLWK DOO EODFN SL[HOV

6XUIDFH OXPLQDQFH LV WKH FHQWHU SRLQW DFURVV WKH
XUIDFH ZLWK DOO SL[HOV GLVSOD\LQJ ZKLWH

7 0* 0 " "!

(6SHFLDO H[DPLQDWLRQ UHTXLUHPHQWV
 ([DPLQDWLRQHSWDEOH 6WDQGDUG 5HPDUNV
 ,WHPV %DFNOLJKW LQVWDOOHG
 %ULQJLIRUPLW\ DQG HIILFLHQF\ PXVW EH LQ
 VSHFV UHTXHVWHG
 %DFNOLJKW %DFNOLJKW FRORUV PXVW EH LQ VSHFV UHTXHVWHG
 :LWK ODJQLILHU
 %H]]HO 7R UHMHFV YLVLEOH GDPDJHV VKDSH FKDQJHV RU VROGHU
 W%' %HQW WUDFN DQJOH FDQGHV ERZOHU WKDQ
 7R UHMHFV FUDFNV RU EUHDNV RQ HQIRUFHG SDQHO RU
 EXEEOHV WDNLQJ PRUH WKDQ RI ZKROH VHFWRQ
 * 7R UHMHFV VFUDWFKHV RU GLUW VSRWV RU VPDOO REMHF
 FRQQHFWLRQ SLQV
 7R UHMHFV R[\JHQL]HG RU GHIHFV
 RQ FRQQHFWLRQ SLQV
 7R UHMHFV DQ\ FRQQHFWLRQ SLQV
 PLVVLQJ RU LQFRPSOHWH
 HOHFWURSODWHG OD\HUV

'W'H[DPLQDWLRQ VWDQGDUG

([DPLQDWLRQ ---~TM TM~š,~ TM œœ••œž• 5HPDUNV
 ,WHPV
 /LQH 6KDSH ©aa «-•~©aa « ---~TM TM~š,~
 'HIHFVQHV ®'-
 LQ EODFN R ± 2 e et œ---~TM TM
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 6FUDFKL ©œ©aa « -•~©aa « ---~TM TM~š,~
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 °°°° ± 2 e et œ---~TM TM
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MPOH ;MFIPI SWI MFOHUI

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t
 1HWRQ V (YHQ HTXDO 1HZWRQGV DZIQJV
 ,I WKH VLJH RI 1HZWRQ V ULQJV LV PRUH
 5LQJ WKDQ RI 7 3 DUHD LW LV UHMHFWHG
 ([DP 8QGHU IOXRUVFHQW OLJKW LI WKH VLJH RI
 1HZWRQ V ULQJV LV QR PRUH WKDQ DQG
 DOVR GR QRW FKDLQ DUHGLVSOD\
 DFFHSWDEOH

Ó 8QH YHQ XQHTXDO 1HZWRQ V ULQJV DV GUDZLQJ %
 8QGHU QR IOXRUVFHQW OLJKW LI WKH VLJH
 RI 1HZWRQ V ULQJV LV^a ELJWHU WKDQ
 LV UHMHFWHG
 8QGHU IOXRUVFHQW OLJKW DV ORQJ DV WKH
 GLVSOD\
 FKDUFWHU V RU LPDJHV DUH
 FKDQJHG QR PDWWHU KRZ ELJ WKH VLJH RI
 1HZWRQ V ULQJV LW LV UHMHFWHG

5HPDUNV SOHDVH UHPRYH WKH SURWHFW ILOP ZKHQ LW LV WHVWHG

ASI-T-280DA216T/AW

7KDW P\ EH DFFHSWDEOH WR KDYH WKH VHDOLQJ IDOOLQJ F
 DFKLHYHV WKH UHTXHVW
 7KH VXUIDFH RI WKH FRDWLQJ DGKHVLYH SRVLWLRQ DFFRU
 UHTXLUHPHQWV KHLJKW FDQ QRW H[FHHG WKH SRODUL]LQJ
 FRYHUHG WHUPLQDOV

,I WKH DERYH XQGHVLUDEOH GRHV QRW RFFXU LQ WKH YLHZDEOH DU

: A F

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3 - œ ~ a < ~ ž CE œ CE ž CE § ~	° * e • 5 e " ž B ° 5 e • " ž
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3 - œ ~ a < ~ ž CE œ CE œ œ - •) & 1
< - § " œ ~ a < ~ ž CE œ CE - ž CE •• " CE a - • - œ " ž CE œ - •	J * 30 & 1
' ~ ž a CE TM " — ") !) 4 1 n j o & % # 4 ' &

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 6 4 \$

: 1 8 7 5 1 1 1 5 6 ; 9

: 5) 1 7 14

6 1

< 6 1 1 5 5 1 1 8 7 # 3 5
 8

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> ! " < ! " \$ 0
* 1 " < 4 ! 5 9 6 1 1 1

* 1 4 6 7 5 6 1 6 1 ! 1

* # 1 4 1 6 < , 6 1 5 1 ! 6 4 6 1
! 6 1 8 4 7 9 3 0 3 0

* 6 1 = 1 1 5 4 9 8 1 7 > %
) 1 1 9 9 1 6 6 '

* " ; 1 5 1 9 4 6 1 1 % 7 9 1 4 6 1
1 1 1 % 5 1 7 9 7 ' 1 7 7 7 4 7 1
7 > 9 4 6 1 1

* 5 " < 4 8 7 6 1 4 5 9 4 6 6 6 1 1
4 1 4 1 4 1 1 1 4 1 1 6 6 4 6 1
7 1 7 6 5 1 4 4 6 4 7
5 5 6 1 5 1 4 1 7

* (4 4 = 6 1 5 1 4 1 5 " 5 4 4 1 7
1 ! , 1 1 8 5 9 9

* () ? , 6 1 5 6 1 1 7 1

* () 1 4 1