

PCA-6654 Manual User's Note

Additional Information for Users

Thank you for choosing an Advantech product.

The system which you have received includes the VGA card "PCA-6654 version B". However, the manual is for the PCA-6654 version A. There are some important differences between version B and version A. The major differences are listed below:

As for the VGA card, note that for version B:

1. An additional "74LV244 Buffer" has been added, to enhance the signal intensity of the internal LCD.
2. It has been enabled to drive +5 V or +3.3 V LCDs.
3. The DC to DC converter has been removed.
4. The +3.3 V external power output has been removed.

As for the receiver board, note that for version B:

1. The pin header has been changed to 1.25 pitch, compared to the original 2.0 pitch.
2. The DC to DC converter has been removed.
3. An additional power connector and switch have been added.

The pin assignment comparison table for each board is overleaf for your ease of reference.

PCA-6654 Comparison Table

PCA-6654 REV. B	PCA-6654 REV. A	Function
CN1	CN1	CRT display
CN2	CN2	Flat panel display
JP1	JP1	Flat panel display header
JP2		+5 V power support for PanelLink receiver
JP3		+12 V power support for PanelLink receiver
J1	J8	LCD bias voltage select
J2	J6	LCD signal level select
J3		Backlight enable level
CON1	J9	LCD brightness adjustment
CON2	J10	Backlight power connector
CON3		MONO LCD contrast adjustment connector
CON4	J4	DSTN LCD contrast adjustment
SW1	SW1	LCD type select
SW2	SW2	LCD clock configuration select (for PanelLink only)
SW3	SW3	LCD control signal configuration select (for PanelLink only)
SW4		PanelLink cable length select

PanelLink Receiver Comparison Table

PL RX REV. B	PL RX REV. A	Function
CN1	J10	Flat panel display connector
JP1	JP3	Flat panel display header
JP2	JP4	Flat panel display extension header
J1	J15	Backlight level select
J2	J5	LCD bias voltage select
J3	J8	LCD signal level select
J4		Internal/external power select
CON1	J7	DSTN LCD contrast adjustment
CON2	J2	Brightness adjustment
CON3	J3	Backlight power
CON4		Auxiliary brightness/contrast adjustment
CON5	J1	MONO LCD contrast adjustment connector
CON6	J16	Power down select
CON7		External power input
CON8	J6	Extension power
SW2	S2	LCD clock configuration select
SW3	S3	LCD type select