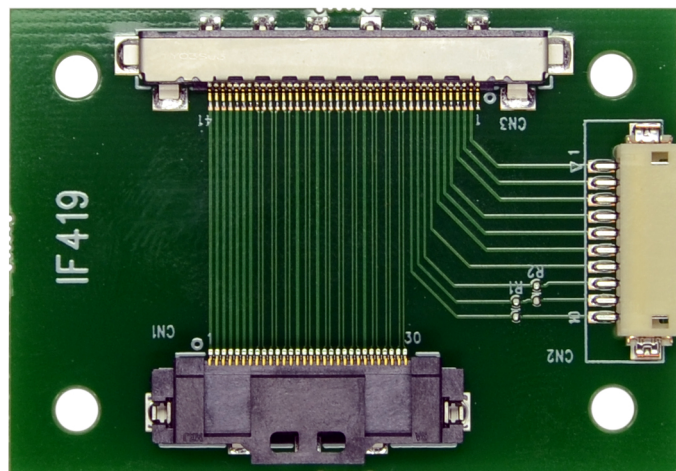


Datasheet

IF419

Interface Board IF419 G170J1-LE1

ZU-02-419



Version 1.0

09.04.2018

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1 Revision History

Date	Rev.No.	Description	Page
09.04.2018	1.0	Initial release	All

2 Overview

This is a special adapter board for the Innolux 17,0" G170J1-LE1 panel.
The adapter brings the circumstantial LVDS and backlight connections to a single JAE connector.

3 Connector Overview

3.1 CN1 INX LVDS Connector

CN1: LVDS connector G170J1-LE1 Molex 5018643091					
Pin	Signal	Description	Pin	Signal	Description
1	Vcc	+5.0V power supply	16	RXE1-	-LVDS data
2	Vcc	+5.0V power supply	17	VSS	Ground
3	Vcc	+5.0V power supply	18	RXE0+	+LVDS data
4	AGMODE	Aging mode selection	19	RXE0-	-LVDS data
5	NC	No Connection	20	RXO3+	+LVDS data
6	VSS	Ground	21	RXO3-	-LVDS data
7	VSS	Ground	22	RXOC+	+LVDS clock
8	RXE3+	+LVDS data	23	RXOC-	-LVDS clock
9	RXE3-	-LVDS data	24	VSS	Ground
10	RXEC+	+LVDS clock	25	RXO2+	+LVDS data
11	RXEC-	-LVDS clock	26	RXO2-	-LVDS data
12	RXE2+	+LVDS data	27	RXO1+	+LVDS data
13	RXE2-	-LVDS data	28	RXO1-	-LVDS data
14	VSS	Ground	29	RXO0+	+LVDS data
15	RXE1+	+LVDS data	30	RXO0-	-LVDS data

3.2 CN2 INX Backlight Connector

CN2: Backlight connector G170J1-LE1 Hirose DF13-10P-1.25H					
Pin	Signal	Description	Pin	Signal	Description
1	V _I	Input voltage +12V	6	V _{GND}	Converter ground
2	V _I	Input voltage +12V	7	EN	Enable pin
3	V _I	Input voltage +12V	8	ADJ1-3	Area1 PWM adjust ¹⁾
4	V _{GND}	Converter ground	9	ADJ1-3	Area2 PWM adjust ¹⁾
5	V _{GND}	Converter ground	10	ADJ1-3	Area3 PWM adjust ¹⁾

1) Pin 8 + 9 + 10 is short on PCB with R1&R2 0R 1/16W ±5%. Can be removed, to have ADJ1, ADJ2, ADJ3 separated.

3.3 CN3 Interface Connector

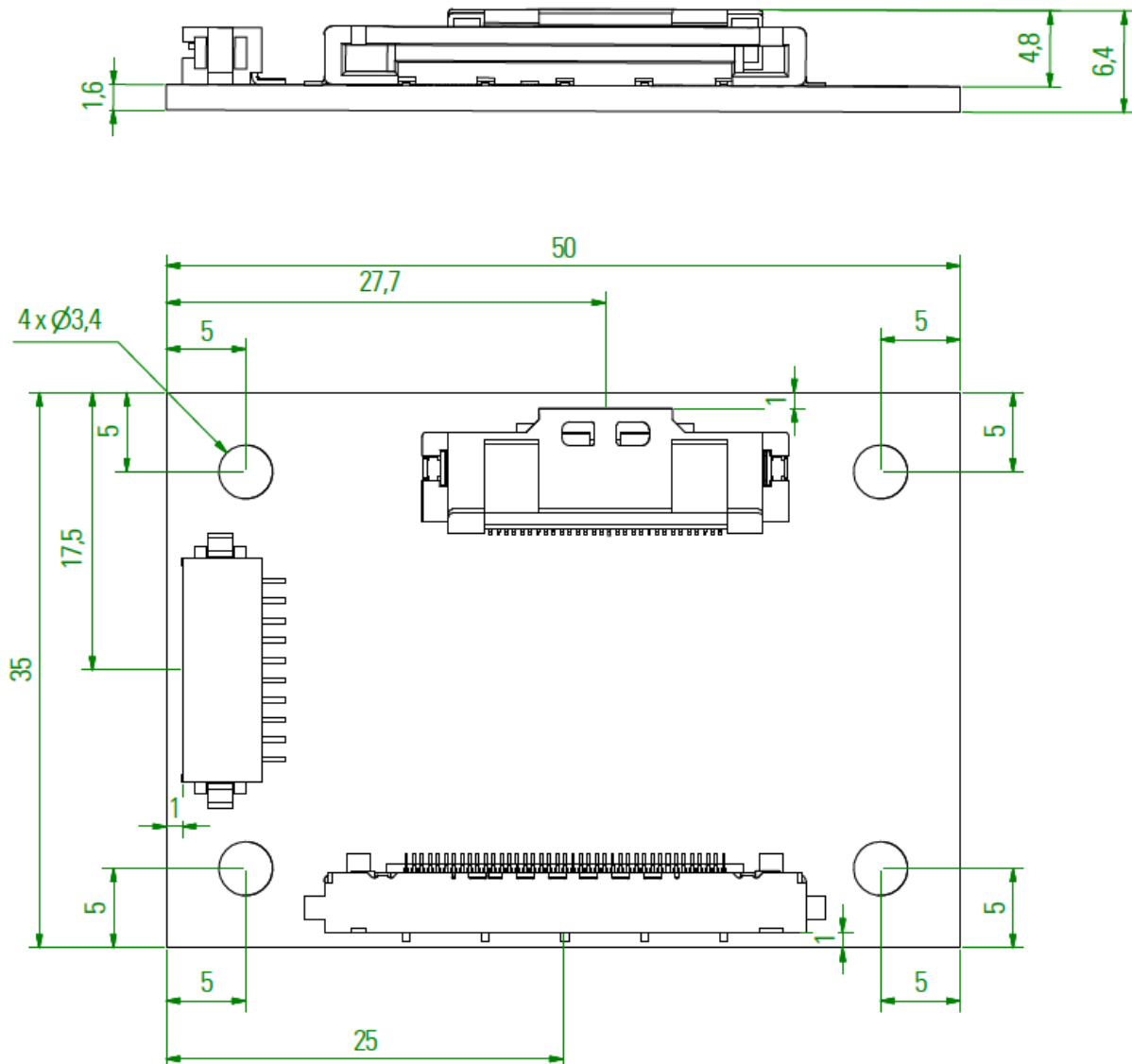
CN3: Interface Connector JAE FI-RE41S-HF		
Pin	Signal	Description
1	NC	No Connection
2	VI	Converter input voltage +12V
3	VI	Converter input voltage +12V
4	VI	Converter input voltage +12V
5	VGND	Converter ground
6	VGND	Converter ground
7	VGND	Converter ground
8	EN	Enable pin 3,3V
9	ADJ1-3	Area1 PWM adjust 1)
10	ADJ1-3	Area2 PWM adjust 1)
11	ADJ1-3	Area3 PWM adjust 1)
12	RXO0-	-LVDS differential data input, Chan 0-Odd
13	RXO0+	+LVDS differential data input, Chan 0-Odd
14	RXO1-	-LVDS differential data input, Chan 1-Odd
15	RXO1+	+LVDS differential data input, Chan 1-Odd
16	RXO2-	-LVDS differential data input, Chan 2-Odd
17	RXO2+	+LVDS differential data input, Chan 2-Odd
18	VSS	TFT Ground
19	RXOC-	-LVDS differential Clock input (Odd)
20	RXOC+	+LVDS differential Clock input (Odd)
21	RXO3-	-LVDS differential data input, Chan 3-Odd
22	RXO3+	+LVDS differential data input, Chan 3-Odd
23	RXE0-	-LVDS differential data input, Chan 0-Even
24	RXE0+	+LVDS differential data input, Chan 0-Even
25	VSS	TFT Ground
26	RXE1-	-LVDS differential data input, Chan 1-Even
27	RXE1+	+LVDS differential data input, Chan 1-Even
28	VSS	TFT Ground
29	RXE2-	-LVDS differential data input, Chan 2-Even
30	RXE2+	+LVDS differential data input, Chan 2-Even
31	RXEC-	-LVDS differential Clock input (Even)
32	RXEC+	+LVDS differential Clock input (Even)
33	RXE3-	-LVDS differential data input, Chan 3-Even
34	RXE3+	+LVDS differential data input, Chan 3-Even
35	VSS	TFT Ground
36	VSS	TFT Ground
37	NC	No Connection
38	AGMODE	Aging mode selection [Default connection GND]
39	Vcc	+5.0V TFT power supply
40	Vcc	+5.0V TFT power supply
41	Vcc	+5.0V TFT power supply

1) Pin 8 + 9 + 10 is short on PCB with R1&R2 0R 1/16W $\pm 5\%$. Can be removed, to have ADJ1, ADJ2, ADJ3 separated.

Matching Connector: JAE FI-RE41HL

4 Mechanical Specification

Item	Description [mm]	Remarks
Length	50	± 0.2 mm
Width	35	± 0.2 mm
Height (PCB)	1.6	± 0.1 mm
Height (bottom side)	0.0	No components on bottom side.
Height (Total)	6.4	± 0.2 mm



5 Ordering Information

Set Part Number	Description
KI-90-023	Set IF419+Cable for G170J1-LE1
Part Numbers	Description: KI-90-023 set consists of following parts
ZU-02-419	Interface Board IF419 G170J1-LE1
KA-30-996	Cable FFC IF419/G170J1-LE1 50mm
KA-40-104	Cable BKL G170J1-LE1/IF419 16cm
KA-10-196	Cable PrismaMEDIA-Eco/IF419 30cm ¹⁾

1) This cable is designed for use with Distec converter boards.

Our company network supports you worldwide with offices in Germany, Austria, Switzerland, Great Britain and the USA. For more information please contact:

Headquarters

Germany



FORTEC Elektronik AG

Lechwiesenstr. 9
86899 Landsberg am Lech

Phone: +49 8191 91172-0
E-Mail: sales@forteca.de
Internet: www.forteca.de

Fortec Group Members

Austria



FORTEC Elektronik AG

Office Vienna

Nuschinggasse 12
1230 Wien

Phone: +43 1 8673492-0
E-Mail: office@fortec.at
Internet: www.fortec.at

Germany



Distec GmbH

Augsburger Str. 2b
82110 Germering

Phone: +49 89 894363-0
E-Mail: info@distec.de
Internet: www.distec.de

Switzerland



ALTRAC AG

Bahnhofstraße 3
5436 Würenlos

Phone: +41 44 7446111
E-Mail: info@altrac.ch
Internet: www.altrac.ch

United Kingdom



Display Technology Ltd.

5 The Oaks Business Village
Revenge Road, Lordswood
Chatham, Kent, ME5 8LF

Phone: +44 1634 627255
E-Mail: info@displaytechnology.co.uk
Internet: www.displaytechnology.co.uk

USA



Apollo Display Technologies, Corp.

87 Raynor Avenue,
Unit 1 Ronkonkoma,
NY 11779

Phone: +1 631 5804360
E-Mail: info@apolloDisplays.com
Internet: www.apolloDisplays.com