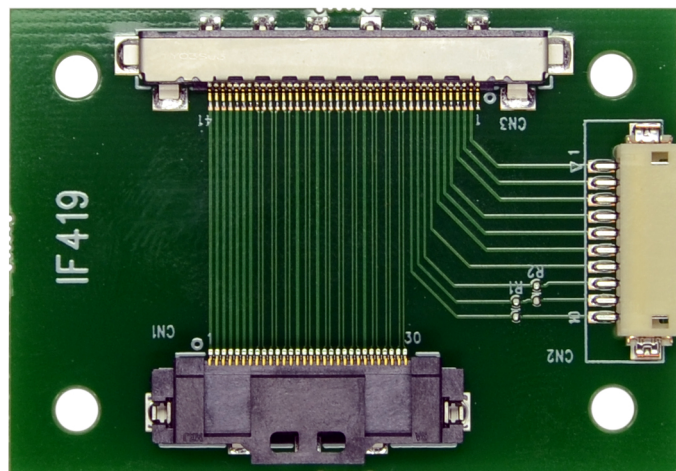


# Datasheet

## 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 <sub>I</sub>	Input voltage +12V	6	V <sub>GND</sub>	Converter ground
2	V <sub>I</sub>	Input voltage +12V	7	EN	Enable pin
3	V <sub>I</sub>	Input voltage +12V	8	ADJ1-3	Area1 PWM adjust <sup>1)</sup>
4	V <sub>GND</sub>	Converter ground	9	ADJ1-3	Area2 PWM adjust <sup>1)</sup>
5	V <sub>GND</sub>	Converter ground	10	ADJ1-3	Area3 PWM adjust <sup>1)</sup>

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

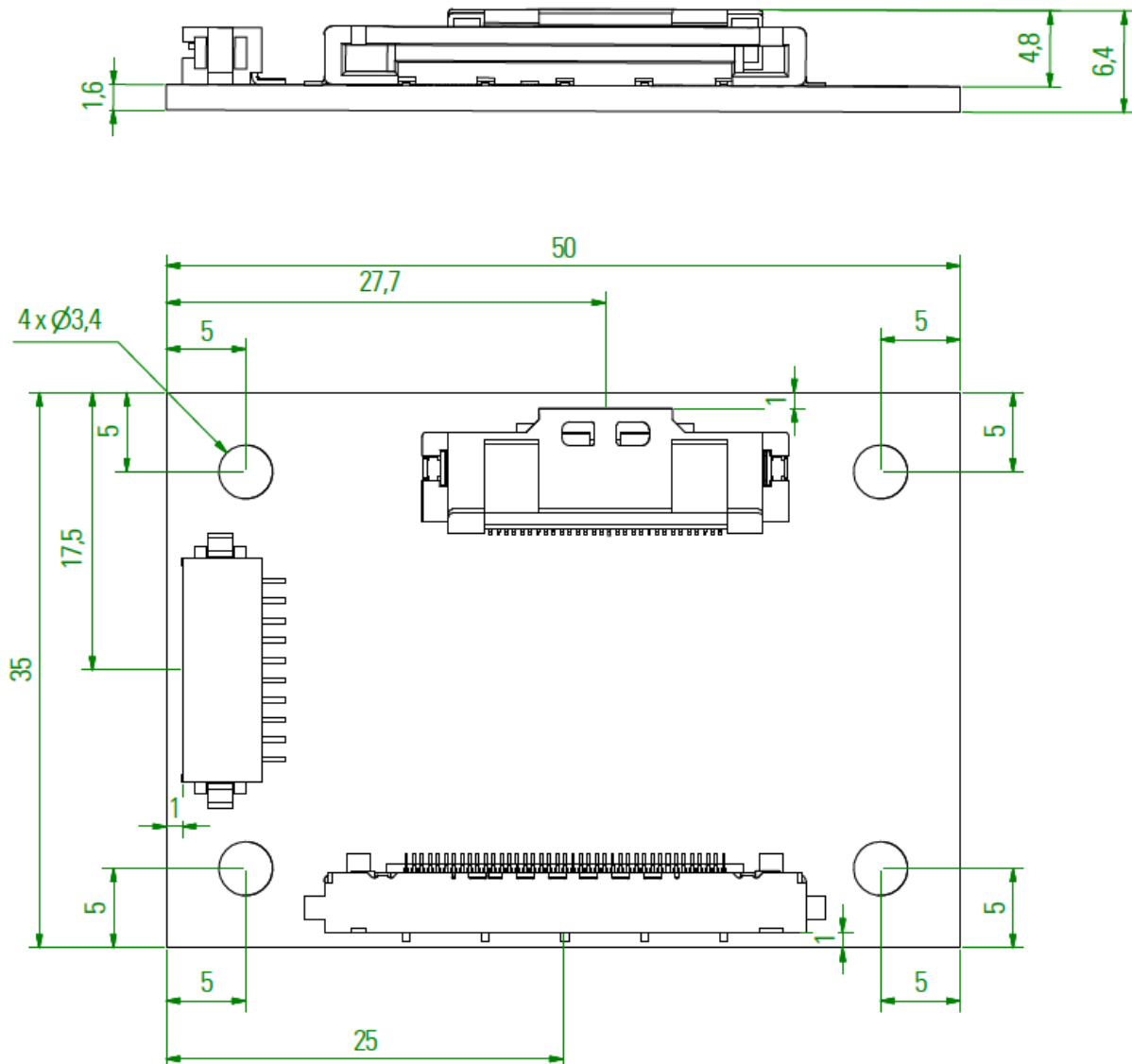
CN3: Interface Connector JAE FI-RE41S-HF		
Pin	Signal	Description
1	NC	No Connection
2	VI	Converter input voltage +12V
3	VI	Converter input voltage +12V
4	VI	Converter input voltage +12V
5	VGND	Converter ground
6	VGND	Converter ground
7	VGND	Converter ground
8	EN	Enable pin 3,3V
9	ADJ1-3	Area1 PWM adjust 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 <sup>1)</sup>

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

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