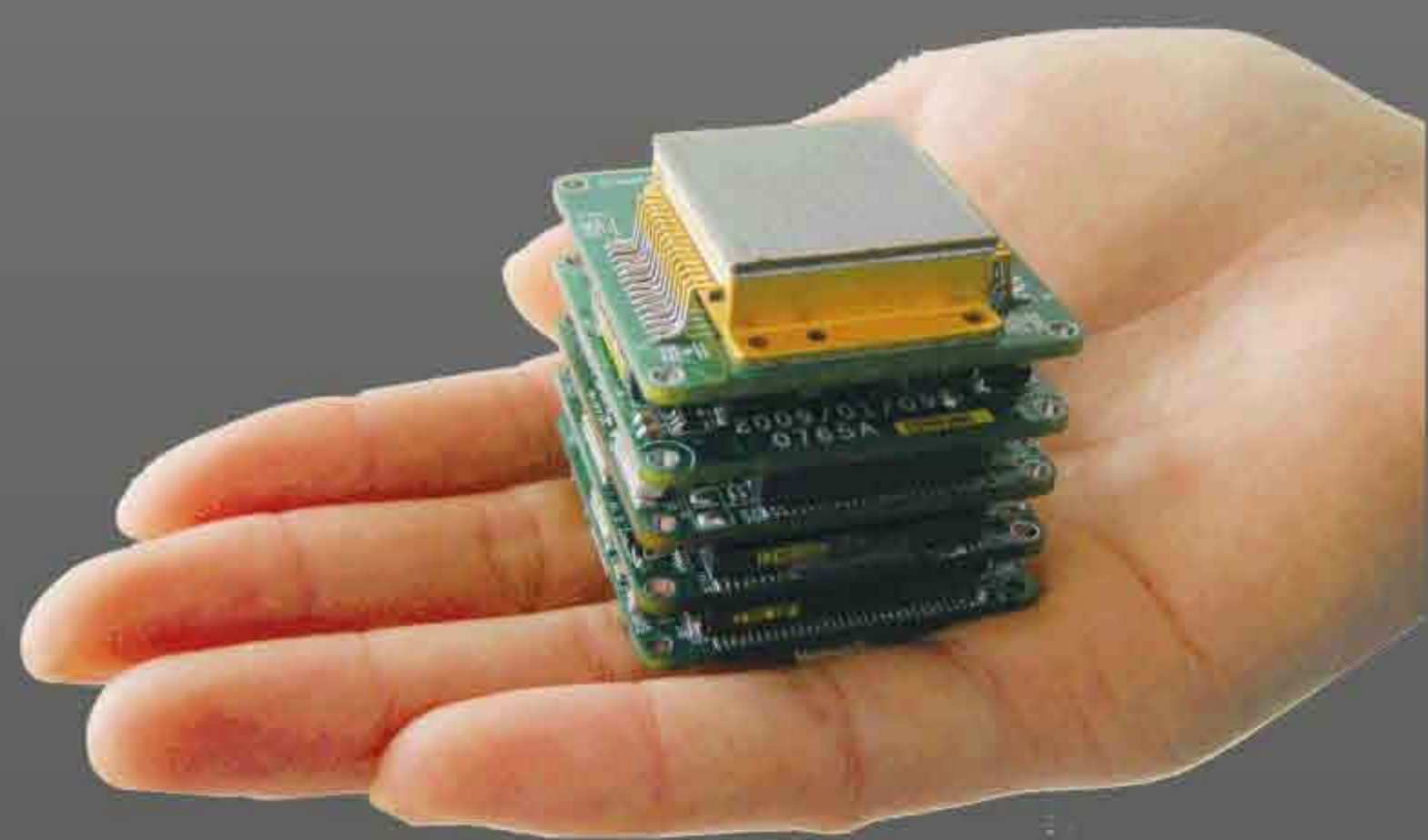


GUIDIR® IR118

Uncooled Thermal Imaging Module

GUIDIR® IR118



IR118 is designed for original equipment manufacturers (OEM). It can be easily integrated into infrared systems. Based on a newly adopted FPGA image processing platform, IR118 offers far more crisp thermal images with even higher resolution. Favoring from an extra-light weight, minimized size, low power consumption design and high imaging quality, IR118 is an ideal choice for customer secondary development and system integration.

Applications

- Industrial thermography
- Predictive maintenance
- Medical diagnosis
- Security application
- System integration
- Research & development

Features and Benefits

- New FPGA image processing platform
- Lightweight and compact
- Low power consumption
- High quality thermal image
- Standard interface for easy integration
- Flexible for customization
- Various lens optional

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	IR118	IR118S
Detector		
Detector Material	UFPA microbolometer Asi	
Spectral Range	8~14 μm	
Pixels	384×288	
Pitch	25 μm×25 μm	
NETD	<60mk	
Thermal Response Time	7ms	
Fill Factor	>80%	
Bad Pixel	1%	
Image Presentation		
Video Output	PAL	
Frame Frequency	50Hz	
Adjust	Auto/Manual brightness & contrast adjustment	
Electronic Zoom	×2 interpolating	
Polarity	B&W, B&W inverse	
Video Recording	N/A	Live video recording on board
Storage Media	N/A	SD card, can be extened to 4GB
Storage Contents	N/A	Images & videos
Interfaces		
Command and Control	RS232/RS422/RS485	
USB2.0	N/A	Image transfer to PC
Video Output	RCA/BNC alternative	
Power System		
Power Supply	110/220VAC adapter	
Power Dissipation	≤3W (≤3.8W optional)	
Environmental Parameters		
Operating Temperature	-20~50°C(-40~60°C optional)	
Storage Temperature	-20~50°C(-40~60°C optional)	
Physical Characteristics		
Weight	0.07kg	
Size	39mm×39mm×44mm	

Technical Specifications