

SCHROFF INTERSCALE C FOR MINI-ITX

CONDUCTION COOLED CASE SOLUTION COMPLIANT WITH MINI-ITX



Schroff Interscale C cases, leveraging the same proven design as Interscale M cases, feature an interlocking tabbed construction that provides integrated EMC protection and secures with only four screws.

Interscale C cases have integrated heat sinks and are compatible with Schroff's Flexible Heat Conductors for industry leading conduction cooling performance.

Available in standard or custom solutions, with support from prototype through production.

TECHNICAL DETAILS AND BENEFITS

Standards based design

- Compliant with the mini-ITX standard
- Front panel has cut-out for power switch, rear panel has cut-out to accept ATX I/O bracket supplied with mini-ITX boards, and power input for external power supply
- Compact size, 94 x 184 x 189 mm (H x W x D)
- 20 mm heat fin heights for better cooling options

Flexible platform

- Custom sizes available to accommodate riser boards and internal power supplies
- Custom heat fin heights and locations available to meet performance requirements
- Options for different cut-out size and locations, powder coating colors and printing
- Design elements available to create a unique look or corporate branding

Simple to assemble, performance centric design

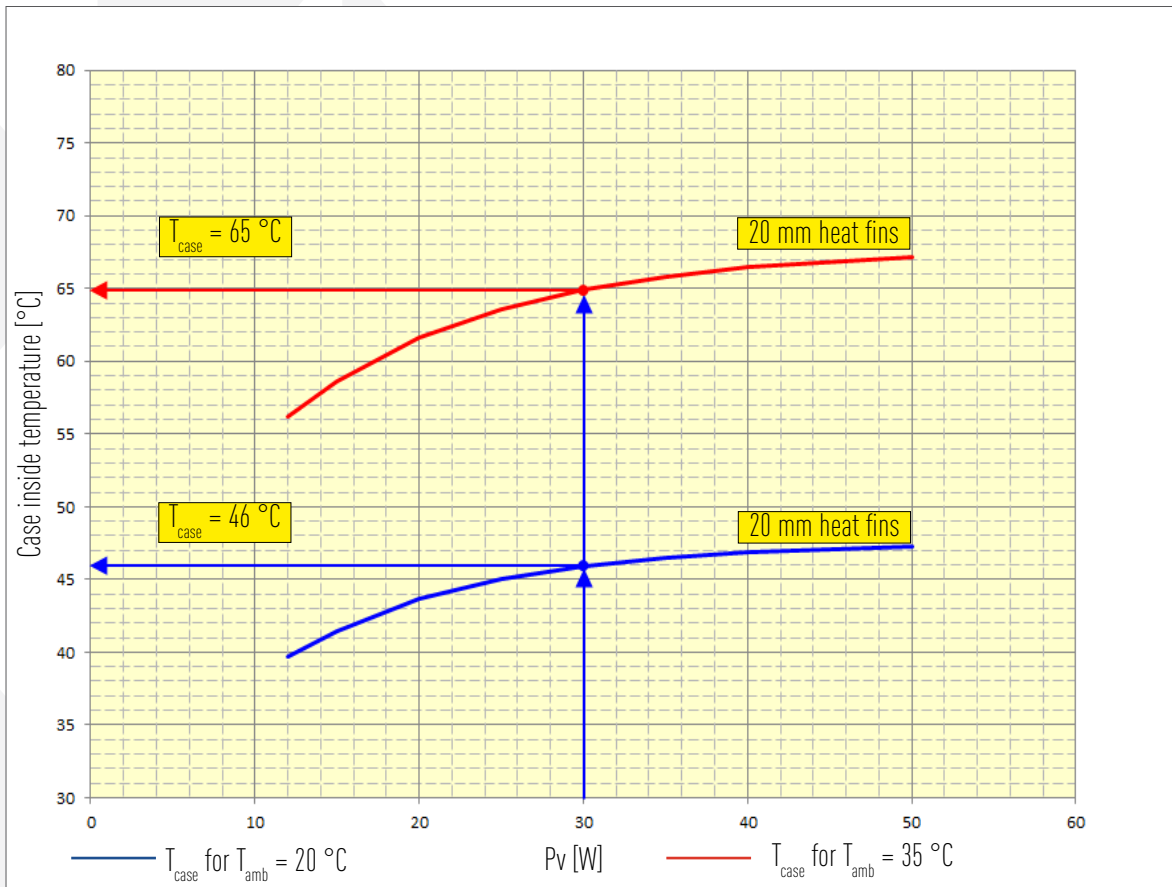
- Ideal for use in industrial applications
- Heat sink is integrated into the case cover; provided assembled
- Pre-installed M3 studs with screws for board mounting
- Modular case consisting of 3 easy to assemble parts requires only four screws
- Innovative design integrated provides EMC protection up to 20 dB at 2 GHz
- Ingress protection up to IP 30

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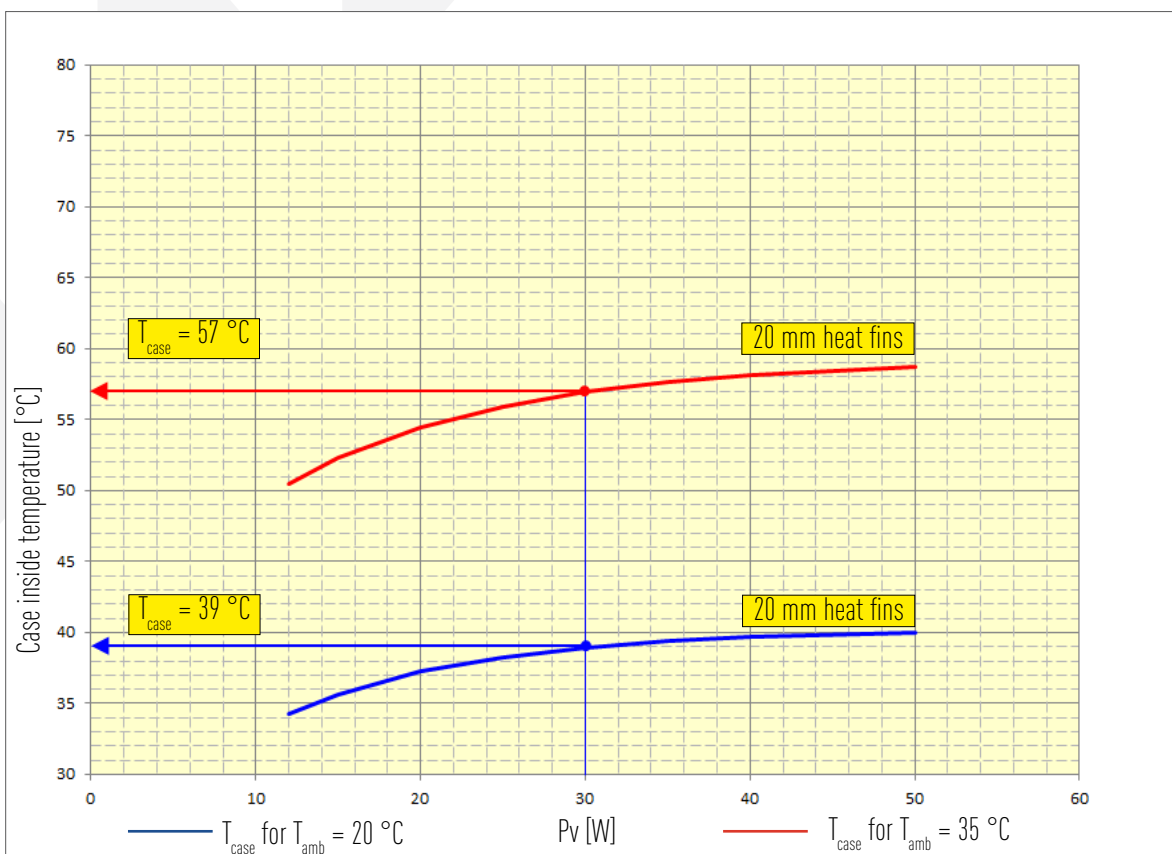
CASE INSIDE TEMPERATURE

INTERSCALE C WITH 20 MM HEAT FINS

Heat transfer coefficient $h = 7 \text{ W}/(\text{m}^2\text{K})$



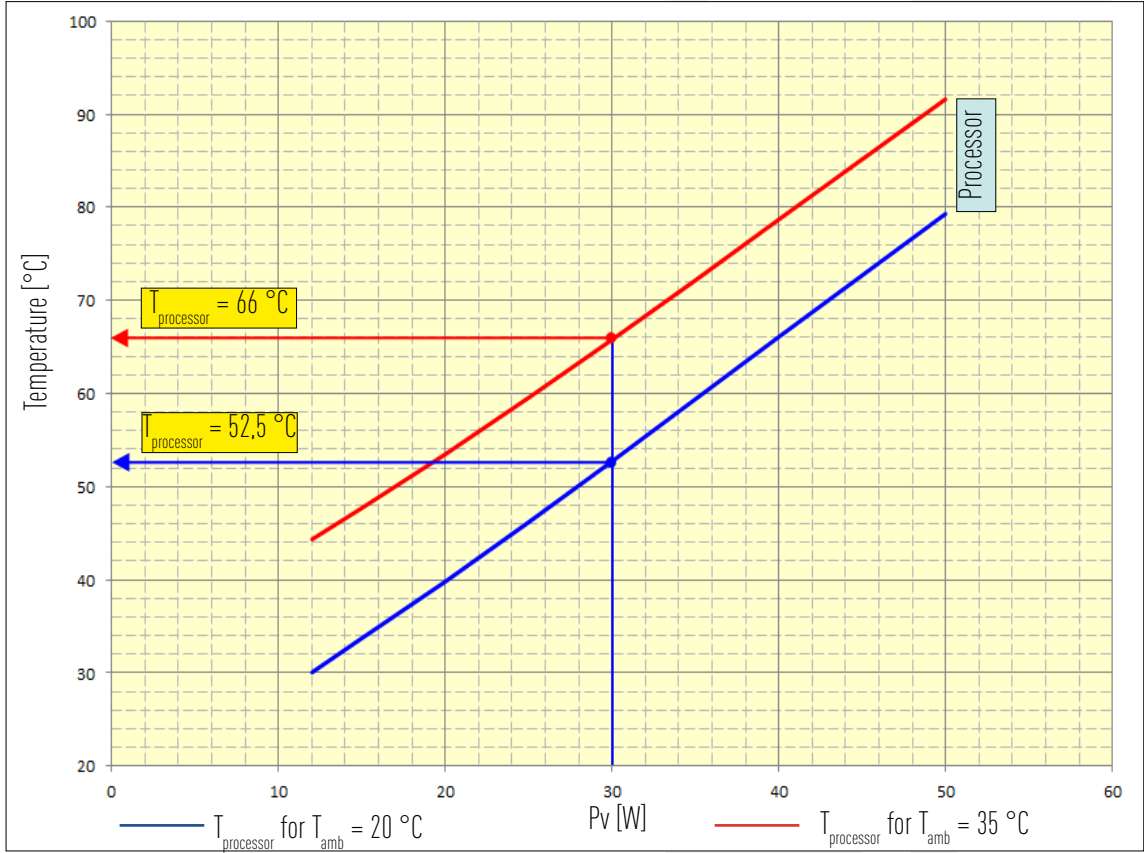
Heat transfer coefficient $h = 10 \text{ W}/(\text{m}^2\text{K})$



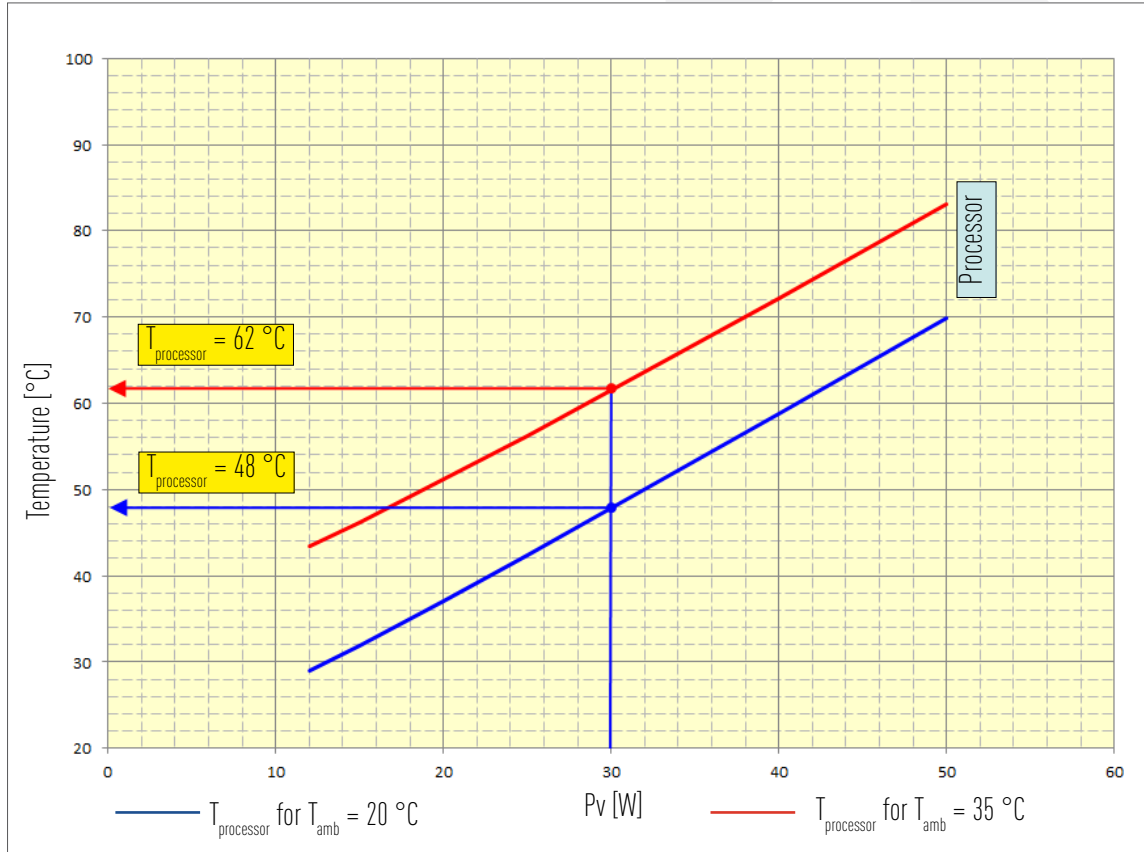
Tested with Mini-ITX Board Core I7 Processor 4770.

PROCESSOR SURFACE TEMPERATURE

FHC 70 MM INSIDE INTERSCALE C CASE WITH 20 MM HEAT FINS
 Heat transfer coefficient $h = 7 \text{ W}/(\text{m}^2\text{K})$



Heat transfer coefficient $h = 10 \text{ W}/(\text{m}^2\text{K})$



Tested with Mini-ITX Board Core I7 Processor 4770.

SCHROFF INTERSCALE C FOR MINI-ITX

Total conduction cooling solution

- Compatible with the Flexible Heat Conductor (FHC) for 70% greater thermal dissipation than traditional conduction cooling
- The integrated springs within the FHC allow the aluminum block to expand and contract vertically thereby eliminating the need for a thermal gap pad
- Interscale C, with the FHC, provide consistent performance over the lifetime of the system
- Whitepaper, including thermal test procedures and results, available



ORDER INFORMATION

Description	20 mm heat fins for Intel socket	20 mm heat fins for AMD socket
Bundle consists of:	14891-239	14891-240
Interscale C for mini-ITX, 94 x 184 x 189 mm (H x W xD)	•	•
Flexible Heat Conductor (FHC), 70 mm	•	•
Mounting bracket for Intel socket: LGA775, LGA1150, LGA1155, LGA1156, LGA1366, LGA2011	•	
Mounting bracket for AMD socket: AM2, AM2(+), AM3, AM3(+), FM1, FM2, FM2(+)		•
Rubber feet, adhesive, 4 pcs.	•	•
Assembly tool	•	•
Aesthetic design elements, adhesive, 2 pcs.	Blue - RAL 5010	24830-016
	Red - RAL 3027	24830-017
	Silver - RAL 9006	24830-018
Horizontal rail mounting bracket		24820-002
Wall or desktop mounting bracket		24820-005



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