

1 Subject

Affected Products	conga-TC170, conga-TC175
Subject	Hotspots on conga-TC170 and conga-TC175
Confidential/Public	Confidential
Date (yyyy.mm.dd)	2017.11.17
Author	RTO

2 Affected Article Numbers

2.1 Product Data

Affected Number(s)	Product
045200	conga-TC170/i7-6600U
045201	conga-TC170/i5-6300U
045202	conga-TC170/i3-6100U
045203	conga-TC170/3955U
045250	conga-TC175/i7-7600U
045251	conga-TC175/i5-7300U
045252	conga-TC175/i3-7100U
045253	conga-TC175/3965U

3 Information

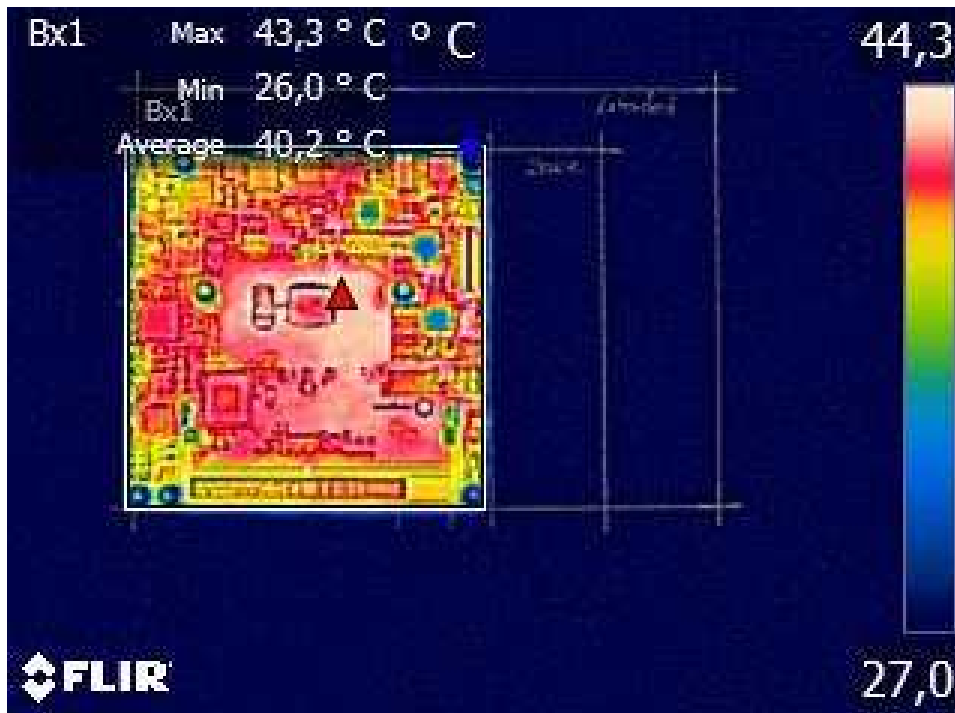
This document provides the thermal information of the products listed in section 2.1.

The Thermal images were recorded on the conga-TC175/i5-7300U, at maximum workload. The module was assembled with a standard congatec cooling solution.

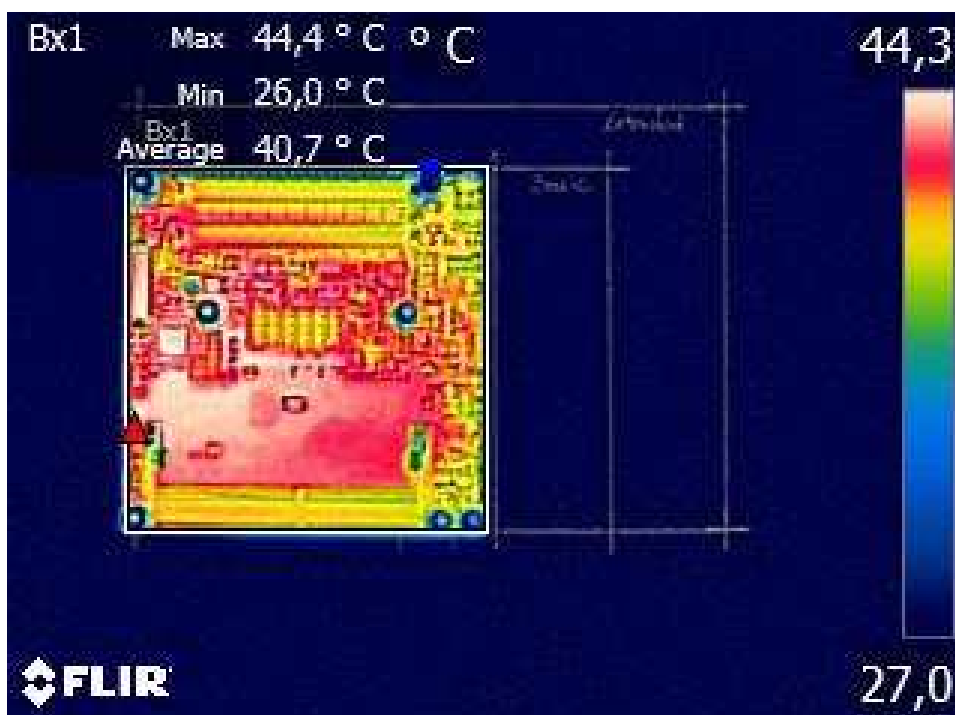
The hotspot overview is based on datasheet information of the relevant components. It is for information purposes only and may change without notice.

3.1 Thermal image

3.1.1 Top side

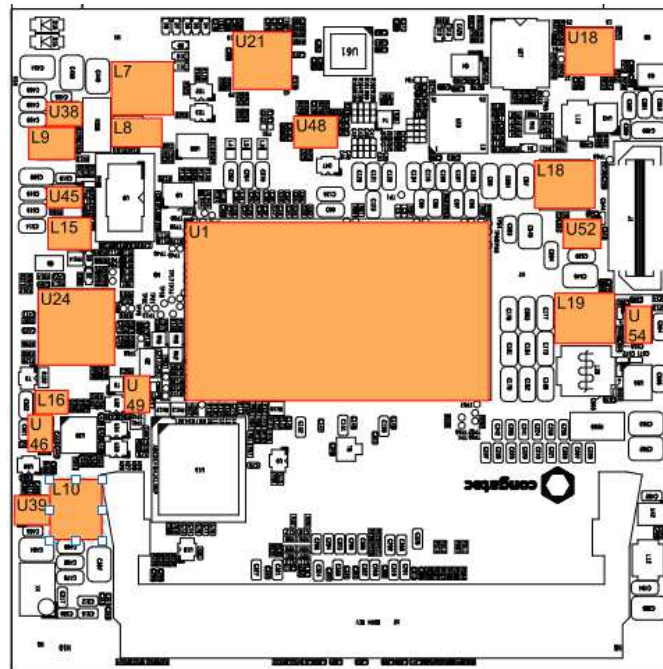


3.1.2 Bottom side



3.2 Hotspot overview

3.2.1 Top side



Part	Description	MAX Tjunction	MAX Tcase	MAX Tambient
U1	CPU	100°C	-	-
U38	Voltage regulator	150°C	-	-
U39	Voltage regulator	150°C	-	-
U46	Voltage regulator	150°C	-	-
U48	Load Switch	125°C	-	-
U49	Load Switch	125°C	-	-
U45	Voltage regulator	150°C	-	-
U52, U54	Power stage	125°C	-	-
L18, L19	Inductor	-	-	125°C
L15	Inductor	-	-	125°C
L16	Inductor	-	-	125°C
L10	Inductor	-	-	125°C
L9	Inductor	-	-	125°C
L7	Inductor	-	-	125°C
L8	Inductor	-	-	125°C
U18	Ethernet Controller	-	-	85°C
U21	LVDS Converter	-	-	70°C
U24	Microcontroller	-	-	85°C

3.2.2 Bottom side



Part	Description	MAX Tjunction	MAX Tcase	MAX Tambient
U37	Voltage monitor	125°C	-	-
U36	Voltage monitor	150°C	-	-
T12	Transistor	150°C	-	-
U40	Load switch	125°C	-	-
U41, U44	Voltage regulator	150°C	-	-
U50	Voltage regulator	150°C	-	-
U51	Load switch	125°C	-	85°C
U53	Voltage regulator	150°C	-	-
U56	Power stage	125°C	-	-
L21	Inductor	-	-	125°C
L11, L14	Inductor	-	-	125°C
L17	Inductor	-	-	125°C

4 Revision History

Revision	Date (yyyy-mm-dd)	Author	Changes
1.0	2017-11-21	RTO	Initial release
