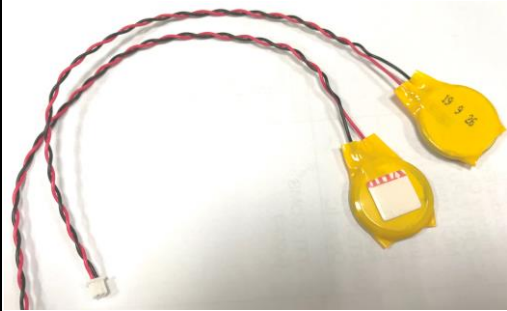





● Appendix

Avalue P/N	E175810301AR (Current)	E175810301PH (Replacement)
MFR	RAYOVAC	murata
MPN	BR2032-BA	CR2032X
Material	LiMnO2	LiMnO2
Nominal Voltage	3V	3V
Nominal Capacity	195mAh	220mAh
Impedance	25ohm	20ohm
Self-discharge rate(Y)	3%	1%
Discharge Duration Load:15Kohm cut off:2V	20°C About 1100h	23°C±3°C 1020h
Topr	-40/+85	-40/+85
Photo		

Avalue P/N	E175810301GR (Current)	E175810301QR (Replacement)
Battery	RAYOVAC/BR2032-BA	muRata/CR2032X
Material	LiMnO2	LiMnO2
Nominal Voltage	3V	3V
Nominal Capacity	195mAh	220mAh
Impedance	25ohm	20ohm
Self-discharge rate(Y)	3%	1%
Discharge Duration Load:15Kohm cut off:2V	20°C About 1100h	23°C±3°C 1020h
Topr	-40/+85	-40/+85
Cable Length	170mm	170mm
Photo		

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VMS-CFS

Coin Battery Verification Report

Old Part : E175810301AR Battery 3V/195mAh 20mm RAYOVAC
New Part : E175810301PH / E175810301QR

Initiated by	Max Chen	Job Title	Supervisor	Originate Date	2019/10/14
Reviewed by	Simon Lin	Job Title	Senior Manager	Revision	QQ4-037 Rev.A8
Approved by	Simon Lin	Job Title	Senior Manager	Release Status	Preliminary Formal Release

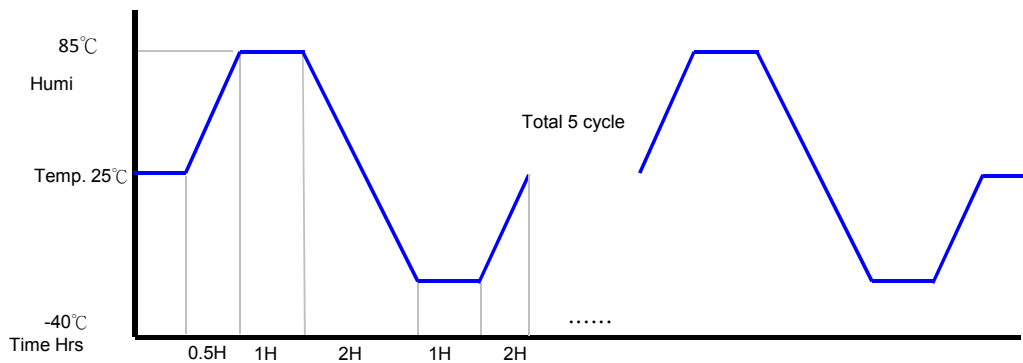
Temperature Cycle Test



Test Engineer	Max Chen	Date	2019/10/12	Result	Pass
Model	VMS-CFS				
Description					
PCB version	A1				
BIOS version	VSCF00H.BIN + EC-07.BIN				
CPU Type	Intel® Core™ i7-8700T Processor (12M Cache, up to 4.00 GHz)				
Memory type and size	Kingston DDR4 2400 16GB x 2				
Backplane	N/A				
Power supply	FSP FSP120-AHAN3 12V / 10A 120W Adapter				
HDD Model/Spec	N/A				
CD-ROM Model/Spec	N/A				

Temperature Cycle Test

- Test Standard : Reference IEC60068-2-14 Testing procedures
 Test Nb : Change of temperature test
- Test Condition :
 1 Test Temperature : High temperature 85°C RH50% / Low temperature -40°C for board level
 2 Test dwell Time : 1 hours
 3 Temperature slope : heating 2 hour, cooling 2 hour
 4 Test cycle : 5 cycles
 5 Test environment curve



Test equipment : Programmable temperature & humidity chamber

use chamber	V			
Model:	THS-D4T-100	THS-D4T-150	THS-D4T-150+LN2	KSON THS-A4T-100
Date of calibration :	2019/3/27	2019/6/21	2019/6/21	2019/1/26

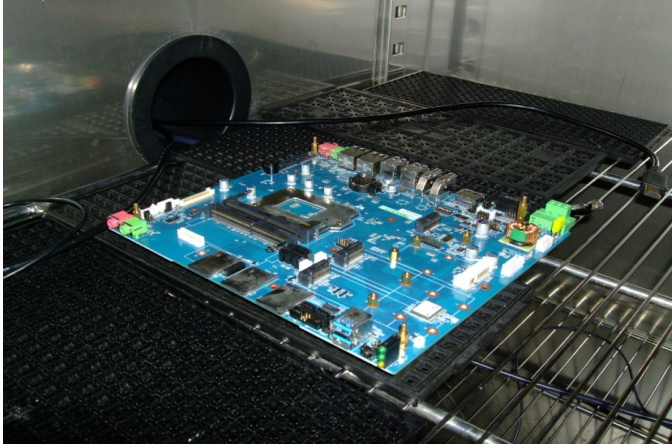
- Performance criteria :
 1 All system functions must be checked with appropriate testing programs and should pass the inspection.
 2 There should be no abnormalities, which couldn't affect the product specified functions and performances.
 3 All products should not have degradation in its performance.

Test result :
 There is no damage in electronic and mechanical functions.
 Degradation has no been found.
 Performance is maintained with no incurable physical damage or degradation.

Function Check :

I/O Function	Result
RTC Timer	Pass

Test picture :



After check RTC Time

