

	<p align="center">BH02.HW.HR.029004</p> <p align="center">HW Release Letter</p>	<p>Doc. ID: BH02.HW.RL.029004</p> <p>Rev.:1.0</p> <p>Date:20/02/2006</p>
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BH02-BP30 **HW Release Letter** **Release BH02.HW.HR.029004**

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1. Introduction

This document describes the **Globe6** deliverables of the BP30 platform release **BH02.HW.HR.029004**

2. Content of delivery

This release is composed by the following HW objects:

Object	Applicable Release	Comments
CS_Gerber	BH02.HW.CS.029000	First Release
BM_BOM	BH02.HW.BM.029004	With implemented delta HW (see Section 3)
HS_Schematic	BH02.HW.HS.029004	With implemented delta HW (see Section 3)

Critical components configuration is:

Component	Description	Code	Version
EGOLDradio	Baseband & Transceiver IC	Infineon PMB7870	V1.10 (ES1+)
EPOWERlite	Power Management IC	Infineon PMB6814	V1.0
PA SiG	RF Power Amplifier	Infineon PMB6293	V2.2
BlueMoon Univ	BlueTooth IC	Infineon PMB8753	V2.02 J-Fuse
26MHz Crystal	Crystal 3.2x2.5mm	Kinseki - Kyocera KSX-23-26000KAA-GA0R	
FEM	Front-End Module	M081	B

List of supported standard peripherals is as follows:

Item	Description
Dual Display Module	T.F.S. (Tree-Five Systems) 6040-0057-05 Main: 1.8" (128x160) 65k colors TFT LCD panel, serial mode Sub: 0.95" (96x64) 4k colors CSTN LCD panel, serial mode.
Camera Module	Agilent ADCM 1700
Handset	Universal telephone handset
Microphone	Sambu OB410P-42C1033R
Receiver / Speaker	Keyrin 1813-TW2 dual outputs, mechanical assembled Loudspeaker/earpiece
Vibrator	Lufa 4ZK810A
Hands Free	Vanasonic VS755S Stereo hands-free with microphone and key
AC/DC Adapter	FRIWO 100-240V to 5V/2.4A AC/DC converter
Antenna	Magnetic antenna with SMA connector (dwd id: 1295)

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3. Change History / Delta Hardware

BH02.HW.HR.029000

is the first version of **Globe6**, for internal debug and not officially released

From BH02.HW.HR.029000 to BH02.HW.HR.029001

A) UTP SMS0010732:

Fix of MAX9850 audio outputs connection for FM radio audio:

Added following handwired connection

>> OUL_L to pin 19 (HPL) of U501(MX9850ETI)

>> OUT_R to pin 18 (HPR) of U501(MX9850ETI)

B) UTP SMS00107348:

Fix for BMU BlueMoon Universal PMB8753 not communicating

Added following handwired connection:

>> VBB2 to to pin G2 (VDDPMREG) of IC800 (PMB8753) on C819

C) UTP SMS00107376:

RF Matching

----- WAS:				=>	----- BECOME:			
ref	coord	description	compid		ref	coord	description	compid

C418	pg.4-C5	cap0402 1,5pF+/-0,1pF	387		C418	pg.4-C5	cap0402 2,2pF+/-0,25pF	389
C420	pg.4-C5	cap0402 1,5pF+/-0,1pF	387		C420	pg.4-C5	cap0402 2,2pF+/-0,25pF	389
L406	pg.4-C5	coil0402 8,2nH_10%	364		L406	pg.4-C5	coil0402 1qwl5 18nH_3%	5136
C422	pg.4-C5	cap0402 1,5pF+/-0,1pF	387		C422	pg.4-C5	cap0402 1,8pF+/-0,25pF	388
C423	pg.4-C5	cap0402 1,5pF+/-0,1pF	387		C423	pg.4-C5	cap0402 1,8pF+/-0,25pF	388
L407	pg.4-C5	coil0402 6,8nH_10%	377		L407	pg.4-C5	coil0402 1qwl5 18nH_3%	5136
C424	pg.4-D5	cap0402 1,5pF+/-0,1pF	387		C424	pg.4-D5	cap0402 3,3pF+/-0,25pF	391
C425	pg.4-D5	cap0402 1,5pF+/-0,1pF	387		C425	pg.4-D5	cap0402 3,3pF+/-0,25pF	391
L408	pg.4-D5	coil0402 22nH_10%	354		L408	pg.4-D5	coil0402 1qwl5 5,1nH+/-0,2nH	5135
L409	pg.4-D5	coil0402 18nH_10%	118		L409	pg.4-D5	coil0402 1qwl5 5,1nH+/-0,2nH	5135
R404	pg.4-C8	res0402 0ohm	5		C408	pg.4-C8	cap0402 8,2pF+/-0,25pF	267

D) UTP SMS00142853:

Fix for CS4n_LB (ChipSelect NANDs Samsung) not connected, IC703 cannot be supported

----- WAS:				=>	----- BECOME:			
ref	coord	description	compid		ref	coord	description	compid

IC703	pg.7-B1	Samsung K9K4G08U0M	5126		IC703	pg.7-B1	Do Not Mount	
IC600	pg.6-H7	Farchild NC7WP08L8X	2031		IC600	pg.6-H7	Do Not Mount	
R607	pg.6-H7	res0402 100kohm_5%	56		R607	pg.6-H7	Do Not Mount	
R613	pg.6-H7	res0402 100kohm_5%	56		R613	pg.6-H7	Do Not Mount	

E) UTP SMS00127992:

Tight tolerance for 3.8GHz filter between EGR and PA

WAS:				=>	BECOME:			
ref	coord	description	compid		ref	coord	description	compid
L400	pg.4-B7	coil0402 2,2nH+/-0,3nH	322		L400	pg.4-B7	coil0402 lqp15 2,2nH+/-0,1nH	5140
L404	pg.4-B7	coil0402 2,2nH+/-0,3nH	322		L404	pg.4-B7	coil0402 lqp15 2,2nH+/-0,1nH	5140
L411	pg.4-B7	coil0402 1,8nH+/-0,3nH	377		L411	pg.4-B7	coil0402 lqp15 1,8nH+/-0,1nH	5136
L413	pg.4-B8	coil0402 1,8nH+/-0,3nH	377		L413	pg.4-B8	coil0402 lqp15 1,8nH+/-0,1nH	5136

F) UTP SMS00127997:

10pF XTal for EGR

WAS:				=>	BECOME:			
ref	coord	description	compid		ref	coord	description	compid
U401	pg.4-D2	Xtal TN4-26197#1	1728		U401	pg.4-D2	Xtal KSX-23-26000KAA-GA0R	5042

G) UTP SMS00128554:

FM radio Clock level

WAS:				=>	BECOME:			
ref	coord	description	compid		ref	coord	description	compid
R505	pg.5-D5	res0402 15kohm_5%	45		R505	pg.5-D5	res0402 47kohm_5%	52
C525	pg.5-D5	cap0402 1nF_10%	209		R502	pg.5-D5	res0402 100kohm_5%	56

From BH02.HW.HR.029001 to BH02.HW.HR.029002
K) UTP SMS00142866:

BlueMoon UniCellular PMB8753 "J-fuse"

WAS:				=>	BECOME:			
ref	coord	description	compid		ref	coord	description	compid
IC800	pg.8-F3	Infineon BMU PMB8753 NO-fuse	2176		IC800	pg.8-F3	Infineon BMU PMB8753 J-fuse	2176
IC207	pg.2-G11	Farchild NC7WP32L8X	5103		IC207	pg.2-G11	Do Not Mount	
R235	pg.2-F11	res0402_nm Not Mounted	2		R235	pg.2-F11	res0402 0ohm	5
R745	pg.7-G2	res0402 100kohm_5%	56		R745	pg.7-G2	res0402_nm Not Mounted	2
R238	pg.2-F10				R238	pg.2-F10	res0402 1Mohm_5% HandWired	69
R237	pg.2-F10				R237	pg.2-F10	res0402 100kohm_5% HandWired	56

L) UTP SMS00142858:
 EGR, PA and FEM update

WAS:				=>	BECOME:			
ref	coord	description	compid		ref	coord	description	compid
IC100	pg.1-2-4	EGOLDradio ES1+ PMB7870v2.2G	2036		IC100	pg.1-2-4	EGOLDradio ES1+ PMB7870v2.20	2036
IC401	pg.4-D10	PASi-G PMB6293_v2.1	5114		IC401	pg.4-D10	PASi-G PMB6293_v2.2	5114
IC400	pg.4-D7	Epcos FEM M081A	5123		IC400	pg.4-D7	Epcos FEM M081B	5123

From BH02.HW.HR.029002 to BH02.HW.HR.029003

H) UTP SMS00143183:
 EPPA2A and EPPA1B wrongly connected to handsfree headset connector

WAS:				=>	BECOME:			
ref	coord	description	compid		ref	coord	description	compid
C500	pg.5-C9	cap0603 10uF_X5R	2021		C500	pg.5-C9	cap0603_nm Not Mounted	385
C517	pg.5-D9	cap0603 10uF_X5R	2021		C517	pg.5-D9	cap0603_nm Not Mounted	385

From BH02.HW.HR.029003 to BH02.HW.HR.029004

M) UTP SMS00134980:
 RX Blocking for DCS1800

WAS:				=>	BECOME:			
ref	coord	description	compid		ref	coord	description	compid
C424	pg.4-D5	cap0402 3,3pF+/-0,25pF	391		L410	pg.4-D5	coil0402 lqw15 10nH+/-0,2nH	5200
C425	pg.4-D5	cap0402 3,3pF+/-0,25pF	391		L414	pg.4-D5	coil0402 lqw15 10nH+/-0,2nH	5200
L408	pg.4-D5	coil0402 lqw15 5,1nH+/-0,2nH	5135		L408	pg.4-D5	coil0402 lqw15 18nH+/-0,2nH	5136

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4. Performed Tests

Following functionality have been tested on each board:

- Step-Down 5V-VBAT
- Code download through ASC0 at 921600kbs of SW 03.84 custom for HW test
- FM radio by Phonetool AT commands: activation of Audio path on hands-free headset and reception of on-air FM station
- Camera preview on main display by TracePanel
- Download of last released SW version with MMI
- Call on test set operative mode with SIM card, on 4-Bands, Mobile Originated and Mobile Terminated, on Max Power level with check on RXLEV and Pmax,
- Headset checked and Ringer
- All Keys of keyboard checked
- Backlight

Following the above basic functionality, the board is calibrated and tested in normal mode for Quad-Band operation.

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5. Known issues and Bug fixes

A) UTP SMS0010732

Headline: MAX9850 audio outputs connected to wrong pins (no FM radio audio)

Description: HR_029000 → OUT_L and OUT_R pins (headphones) are connected to pin 12 (OUTL) and pin 11 (OUTR) of U501 (MAX9850ETI). These output pins of U501 have too high impedance to be connected to headphones; moreover they have no volume control

Fixing: The new connection is OUL_L connected to pin 19 (HPL) and pin OUT_R connected to pin18 (HPR) of U501(MX9850ETI). The HPL and HPR pins have the correct impedance to drive effectively the headphones moreover have the volume control and the mixer feature for digital and analog inputs.

B) UTP SMS00107348

Headline: BMU BlueMoon Universal PMB8753 not communicating

Description: HR_029000 → PMB8753, IC800, does not communicate with the EGR using ASC1 nor using I2S. Problem is related to power supply missing on pin G2 (VDDPMREG) for the current version of BMU (see "fuse" options).

Fixing: The current version of PMB8753 require an external supply to pin G2 (VDDPMREG), this supply can be avoided using the A-fused version of BMU (PMB8753). In order to minimize power consumption the not A-fused version of BMU and a 1.5V (VBB2) interruptible (by SW) power supply has been used. This solution fixes both the communication on asynchronous (ASC1) and synchronous ports (I2S).

C) UTP SMS00107376

Headline: RX filters requires tuning (matching)

Description: HR_029000 → passive components from EGR to FEM and from PA to FEM need to be matched for the actual release of components (EGR 2.2G, FEM Epcos M081A, PA SiG 2.1) and actual PCB layout (CS_029000)

Fixing:

RX GSM850:

C418: WAS cap0402 1,5pF+/-0,1pF (compID:387) → BECOME cap0402 2,2pF+/-0,25pF (compID:389)

C420: WAS cap0402 1,5pF+/-0,1pF (compID:387) → BECOME cap0402 2,2pF+/-0,25pF (compID:389)

L406: WAS coil0402 8,2nH_10% (compID:364) → BECOME coil0402 lqw15 18nH_3% (compID:5136)

RX GSM900:

C422: WAS cap0402 1,5pF+/-0,1pF (compID:387) → BECOME cap0402 1,8pF+/-0,25pF (compID:388)

C423: WAS cap0402 1,5pF+/-0,1pF (compID:387) → BECOME cap0402 1,8pF+/-0,25pF (compID:388)

L407: WAS coil0402 6,8nH_10% (compID:377) → BECOME coil0402 lqw15 18nH_3% (compID:5136)

RX DCS1800:

C424: WAS cap0402 1,5pF+/-0,1pF (compID:387) → BECOME cap0402 3,3pF+/-0,25pF (compID:391)

C425: WAS cap0402 1,5pF+/-0,1pF (compID:387) → BECOME cap0402 3,3pF+/-0,25pF (compID:391)

L408: WAS coil0402 22nH_10% (compID:254) → BECOME coil0402 lqw15 5,1nH+/-0,2nH (compID:5135)

RX PCS1900:

C426: WAS cap0402 1,5pF+/-0,1pF (compID:387) → unchanged

C427: WAS cap0402 1,5pF+/-0,1pF (compID:387) → unchanged

L409: WAS coil0402 18nH_10% (compID:118) → BECOME coil0402 lqw15 5,1nH+/-0,2nH (compID:5135)

TX GSM1800/PCS1900:

R404: WAS res0402 0ohm (compID:5) → BECOME **C408:** cap0402 8,2pF+/-0,25pF (compID:267)

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D) UTP **SMS00142853**

Headline: DOC_CS_VINTn -> CS4n_LB (ChipSelect NANDs Samsung) not connected

Description: HR_029000 → Signal CS4n doesn't reach NAND memory, lauterbach, memory connector and system connector. The NAND memory IC703 cannot be supported and should not be mounted because could create conflicts on the bus due to the floating ChipSelect.

Fixing: Not Mount following devices:
IC703: WAS Nand Samsung K9K4G08U0M → BECOME Not Mounted
IC600: WAS Double AND-Gate NC7WP08L8X → BECOME Not Mounted
R607: WAS res0402 100kohm_5% → BECOME Not Mounted
R613: WAS res0402 100kohm_5% → BECOME Not Mounted

E) UTP **SMS00127992**

Headline: Large passive tolerance for 3.8GHz filter EGR → PA not recommended

Description: HR_029000 → filter components (e.g. coils) have large tolerance and this might detune the filter for worst case condition. Also the insertion loss will increase and/or the input matching of PA might exceed the component's requirements.

Fixing: Use component with tight tolerance, e.g. inductor with +/-0.1nH tolerance. The following change request ensure the required performances only if Murata LQP15 inductors are used :
L400: WAS coil0402 2,2nH+/-0,3nH (compID:322) → BECOME coil0402 lqp15 2,2nH+/-0,1nH (compID:5140)
L404: WAS coil0402 2,2nH+/-0,3nH (compID:322) → BECOME coil0402 lqp15 2,2nH+/-0,1nH (compID:5140)
L411: WAS coil0402 1,8nH+/-0,3nH (compID:377) → BECOME coil0402 lqp15 1,8nH+/-0,1nH (compID:5136)
L413: WAS coil0402 1,8nH+/-0,3nH (compID:377) → BECOME coil0402 lqp15 1,8nH+/-0,1nH (compID:5136)

F) UTP **SMS00127997**

Headline: 8pF Crystal is no more recommended for EGR

Description: HR_029000 → Use of 26MHz Crystal with specified Cload=8pF is no more recommended for EGR applications since it might impact the start-up performances of DCXO

Fixing: Change to 10pF Crystal as follows:
U401: WAS Xtal_26MHz 3,2x2,5 Toyocom TSX3225 TN4-26197#1 (compID:1728)
→ BECOME Xtal_26MHz 3,2x2,5 Kinseky-Kyocera KSX-23-26000KAA-GA0R (compID:5042)

G) UTP **SMS00128554**

Headline: FM radio clock too low

Description: HR_029000 → Fm Radio chip TEA5761UK requires digital input swing for FREQIN clock. The implemented RC filter is filtering too much the FM_CLK signal and therefore the FM radio is not able to tune to wanted frequency.

Fixing: Change the R-C filter to resistive divider as follows:
R505: WAS res0402 15kohm_5% (compID:45) → BECOME **R505:** res0402 47kohm_5% (compID:52)
C525: WAS cap0402 1nF_10% (compID:209) → BECOME **R502:** res0402 100kohm_5% (compID:56)

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H) UTP **SMS00143183**

Headline: EPPA2A and EPPA1B wrongly connected to handsfree headset connector

Description: HR_029000 → With no HandsFree headset plugged, any audio signal played on EPPA2A and EPPA1B generates a false logical high on HS_DET, as an HandsFree headset is plugged and removed, following the audio signal waveform

Fixing: Without HandsFree headset plugged, the HS_DET is shorted to OUT_L (disabled), and OUT_L is connected to EPPA1B via L503 and C500. When audio signal is played on EPPA1B, the audio waveform is AC coupled to HS_DET and has enough amplitude to be detected as logical high, thus triggering the HandsFree Detection.
In addition, when HandsFree is plugged, any signal played on OUT_L and OUT_R is back coupled to EPPA2A and EPPA1B and become audible in the internal receiver/speaker even if EGOLDradio output is disabled.
To fix both problems, please isolate EPPA1B e EPPA2A from HandsFree connector by applying following schematic change:
C500: WAS cap0603 10uF_X5R (compID:2021) → BECOME **C500:** Not Mounted
C517: WAS cap0603 10uF_X5R (compID:2021) → BECOME **C517:** Not Mounted
The usage of audio signals on Globe 6 is confirmed as follows:
Ringer/Backspeaker → EPP1, EPN1 toward EPOWERlite
Downlink Receiver → EPPA1B and EPPA2A
HandsFree Headset → OUT_L and OUT_R from Audio-DAC driven by I2S

J) UTP **SMS00131732**

Headline: CSn_MSD not connected

Description: HR_029000 → the ChipSelect signal for microSD-card is not connected (not routed on PCB)

Fixing: microSD is not supported by BP30 → the microSD connectors must be considered non-functional on Globe6 (risk of conflict with display if uSD is plugged in)

K) UTP **SMS00142866**

Headline: BlueMoon UniCellular PMB8753 “J-fuse”

Description: HR_029001 → BlueMoon Unicellular PMB8753 (IC800) “J-fused” impacts the WakeUp concept for the 26MHz master oscillator

Fixing: Apply following schematic changes:
IC800: WAS Infineon BMU PMB8753 NO-fuse (compID:2176) → BECOME **IC800:** Infineon BMU PMB8753 J-fuse
IC207: WAS Farchild NC7WP32L8X (compID:5103) → BECOME Not Mounted
R235: WAS res0402 Not Mounted (compID:2) → BECOME **R235:** res0402 0ohm (compID:5)
R745: WAS res0402 100kohm_5% (compID:56) → BECOME **R745:** Not Mounted
R505: WAS res0402 15kohm_5% (compID:45) → BECOME **R505:** res0402 47kohm_5% (compID:52)
Add HandWired Pull-Up to VINT on OSC_EXT_EN → BECOME **R238:** res0402 1Mohm_5% (compID:69)
Add HandWired Pull-Up to VINT on BT_RSTn → BECOME **R237:** res0402 100kohm_5% (compID:56)

L) UTP **SMS00142858**

Headline: EGR, PA and FEM update

Description: HR_029001 → The hardware version/release of some key components is no more supported by IC's manufacturer and superseded by newer release

Fixing: Use updated release of key components as follows:
IC100: WAS Infineon EGOLDradio ES1+ PMB7870v2.2G → BECOME Infineon EGOLDradio ES1+ PMB7870v2.2O
IC401: WAS Infineon PASi-G PMB6293_v2.1 → BECOME Infineon PASi-G PMB6293_v2.2
IC400: WAS Epcos FEM M081A → BECOME Epcos FEM M081B

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M) UTP SMS00134980

Headline: 14.7.1 Blocking and spurious response

Description: HR_029003 → RX Blocking out of limits for the Band 1800 at frequency 5528.40 = 3 x FRX

Fixing: Change RF matching topology for RX DCS1800 as follows

C424: WAS cap0402 3,3pF+/-0,25pF (compID:391) → BECOME **L410:** coil0402 lqw15 10nH+/-0,2nH (compID:5200)

C425: WAS cap0402 3,3pF+/-0,25pF (compID:391) → BECOME **L414:** coil0402 lqw15 10nH+/-0,2nH (compID:5200)

L408: WAS coil0402 5,1nH+/-0,2nH (compID:5135) → BECOME **L408:** coil0402 lqw15 18nH+/-0,2nH (compID:5136)

Remarks:

N)

Headline: GPS not supported

Description: HR_029000 → GPS is not included in default BP30 platform features

On default HW configuration of Globe6 the GSP key components might be not populated

U804: WAS Infineon GPS PMB2520 (compID:5132) → BECOME Not Mounted

TR800: WAS Infineon LNA bga61517 (compID:5131) → BECOME Not Mounted

U802: WAS Epcos GPS SAW B9000 (compID: 5129) → BECOME Not Mounted

U803: WAS Epcos GPS SAW B7840 (compID: 5128) → BECOME Not Mounted

P)

Headline: PA Si-G might be old release

Description: HR_029004 → On some Globe6 the populated PA Si-G (IC401) might be not the latest release

PA Si-G is in development component, the default version on Globe6 HR_029004 is v2.2

Population of release like v2.0 and v2.1 might lead to worse RF performances for switching spectrum and power-time template. Nevertheless the capability to perform call on Testset or real network is still guaranteed

Author	Massimo Vlacci	Department:	HW	Page:	11/12
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6. Document change report

	Change Reference		Record of changes made from previous released doc version	
Rev	Date	CR	Section	Comment
1.0	16/02/2006	M.Vlacci		First version of Release doc

7. Approval

Revision	Approver(s)	Date	Source/signature
1.0	Karel Cotic	20/02/2006	Document stored on N7 server

Author	Massimo Vlacci	Department:	HW	Page: 12/12
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