

INFO1

INT - Project Information

HW Project Name:

Anybus ONE - Evaluation board

HW Project Number:

8564

HW Number:

8564

Project Number:

7762

Document Number:

SDC-8564-001

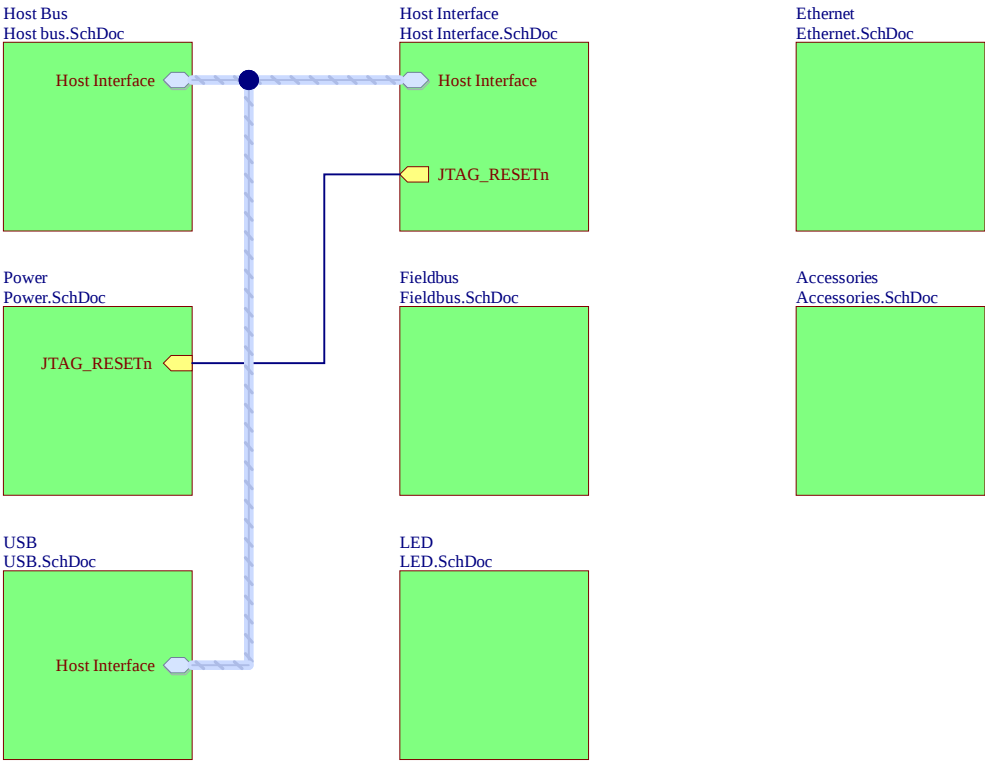
Schematic Version:

1.0.3

Schematic Drawn By:

RoG

INT Project Information Blanket



M1

PCB Breakout

PCB Break aways

M2

PCB Breakout

PCB Break aways

M9

PCB Breakout

PCB Break aways

M3

PCB Breakout

PCB Break aways

M4

PCB Breakout

PCB Break aways

M10

PCB Breakout

PCB Break aways

M5

PCB Breakout

PCB Break aways

M6

PCB Breakout

PCB Break aways

M11

PCB Breakout

PCB Break aways

M7

PCB Breakout

PCB Break aways

M8

PCB Breakout

PCB Break aways

M12

PCB Breakout

PCB Break aways

M02018

PCB

M02018

LOGO1

Anybus[®]

BY HMS NETWORKS

26,4x5,4mm

MH1

Mounting hole, 3.2mm hole, 6mm pad

MH2

Mounting hole, 3.2mm hole, 6mm pad

MH3

Mounting hole, 3.2mm hole, 6mm pad

MH4

Mounting hole, 3.2mm hole, 6mm pad

FID1

Fiducial 2.54mm

FID2

Fiducial 2.54mm

FID3

Fiducial 2.54mm

FID4

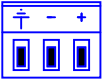
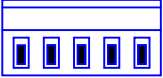
Fiducial 2.54mm

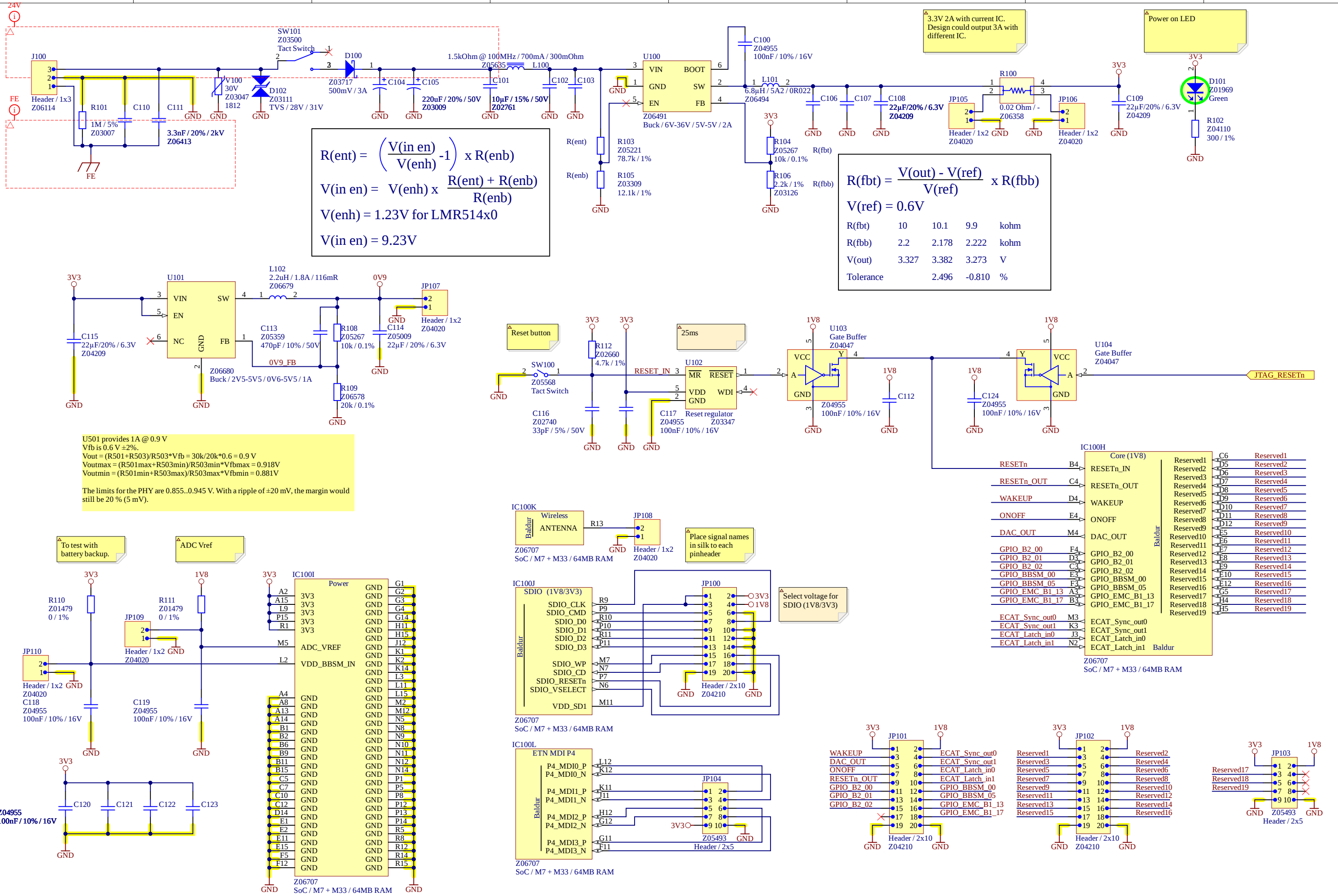
LASER1

Laser Marking Area 6x6mm

LASER2

Laser Marking Area 6x6mm

	1	2	3	4	5	6	7	8
A								
B								
C		P600  1 2 3 Power / 1x3 Z04128 P601  1 2 3 4 5 Power / 1x5 Z06741	MP612  Anybus ONE SoM test fixture Z06746	MP600  2.54mm jumper /w handle Z05543 MP603  2.54mm jumper /w handle Z05543 MP606  2.54mm jumper /w handle Z05543 MP609  2.54mm jumper /w handle Z05543 MP617  2.54mm jumper /w handle Z05543	MP601  2.54mm jumper /w handle Z05543 MP604  2.54mm jumper /w handle Z05543 MP607  2.54mm jumper /w handle Z05543 MP610  2.54mm jumper /w handle Z05543	MP602  Bumpon Bumper Z06725 MP605  Bumpon Bumper Z06725 MP608  Bumpon Bumper Z06725 MP611  Bumpon Bumper Z06725	MP613  Bumpon Bumper Z06725 MP614  Bumpon Bumper Z06725 MP615  Bumpon Bumper Z06725 MP616  Bumpon Bumper Z06725	
D								
E								
F	 HMS Industrial Networks AB Stationsgatan 37 302 50 Halmstad, SWEDEN www.hms-networks.com CONFIDENTIAL This document is confidential property of HMS Industrial Networks AB. Unauthorized reproduction or use is prohibited. (C) HMS Industrial Networks AB. All rights reserved.	Project Title 8564 - Anybus ONE-Evaluation board.PrjPcb Release ASM-8564 - Anybus ONE - EVK-ORIGINAL-01.008	Variant Original	PCBA Revision 01	Designer RoG	Department INT	Date 2026-06-10	SVN Rev 36c45167b55 Sheet 2 / 9
	1	2	3	4	5	6	7	8



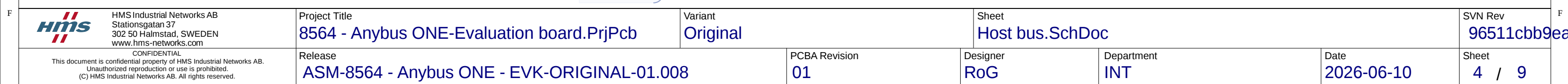
$$R(ent) = \left(\frac{V(in\ en)}{V(enh)} - 1 \right) \times R(enb)$$
$$V(in\ en) = V(enh) \times \frac{R(ent) + R(enb)}{R(enb)}$$
$$V(enh) = 1.23V \text{ for LMR514x0}$$
$$V(in\ en) = 9.23V$$

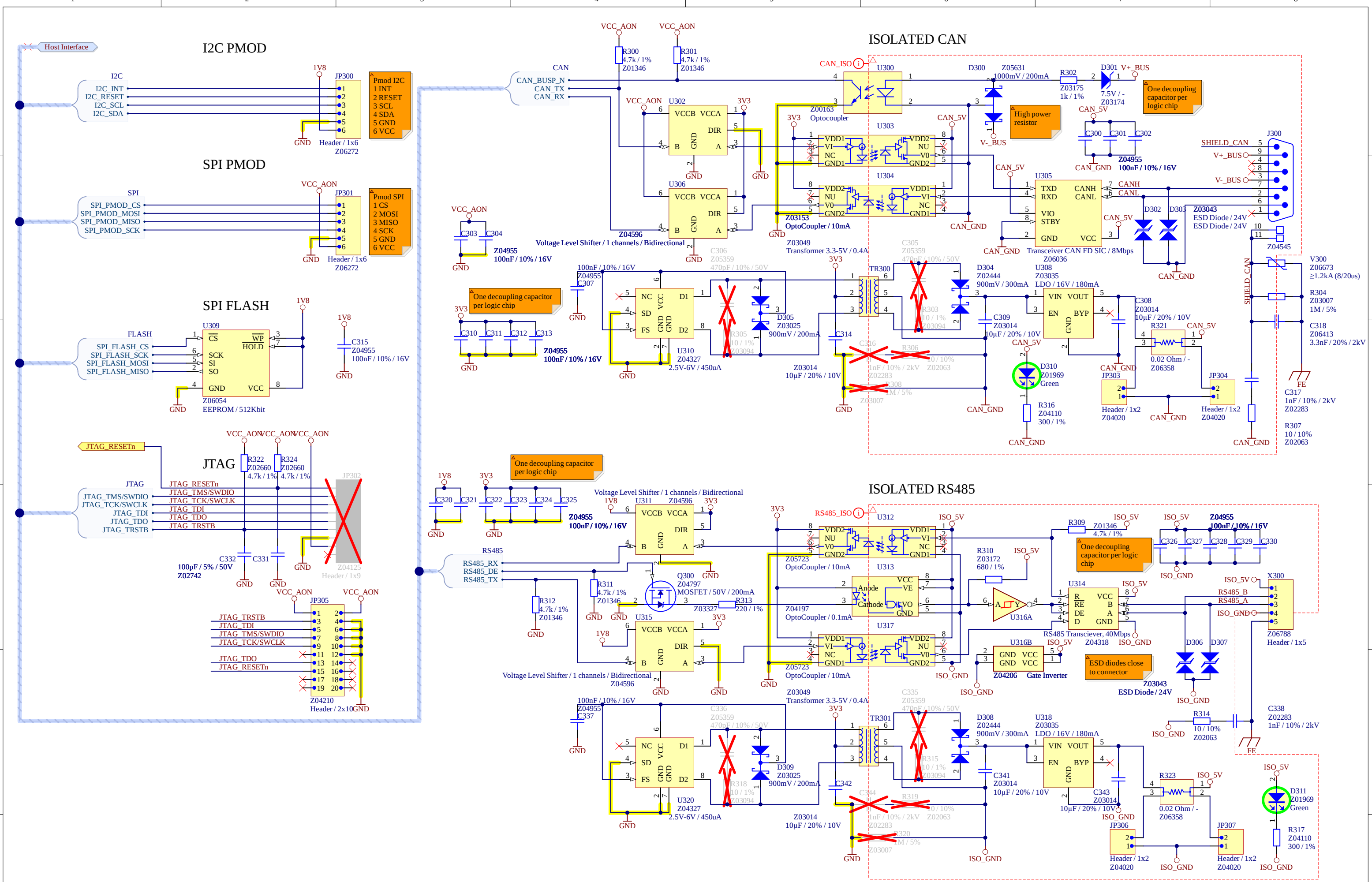
$$R(fbt) = \frac{V(out) - V(ref)}{V(ref)} \times R(fbb)$$
$$V(ref) = 0.6V$$

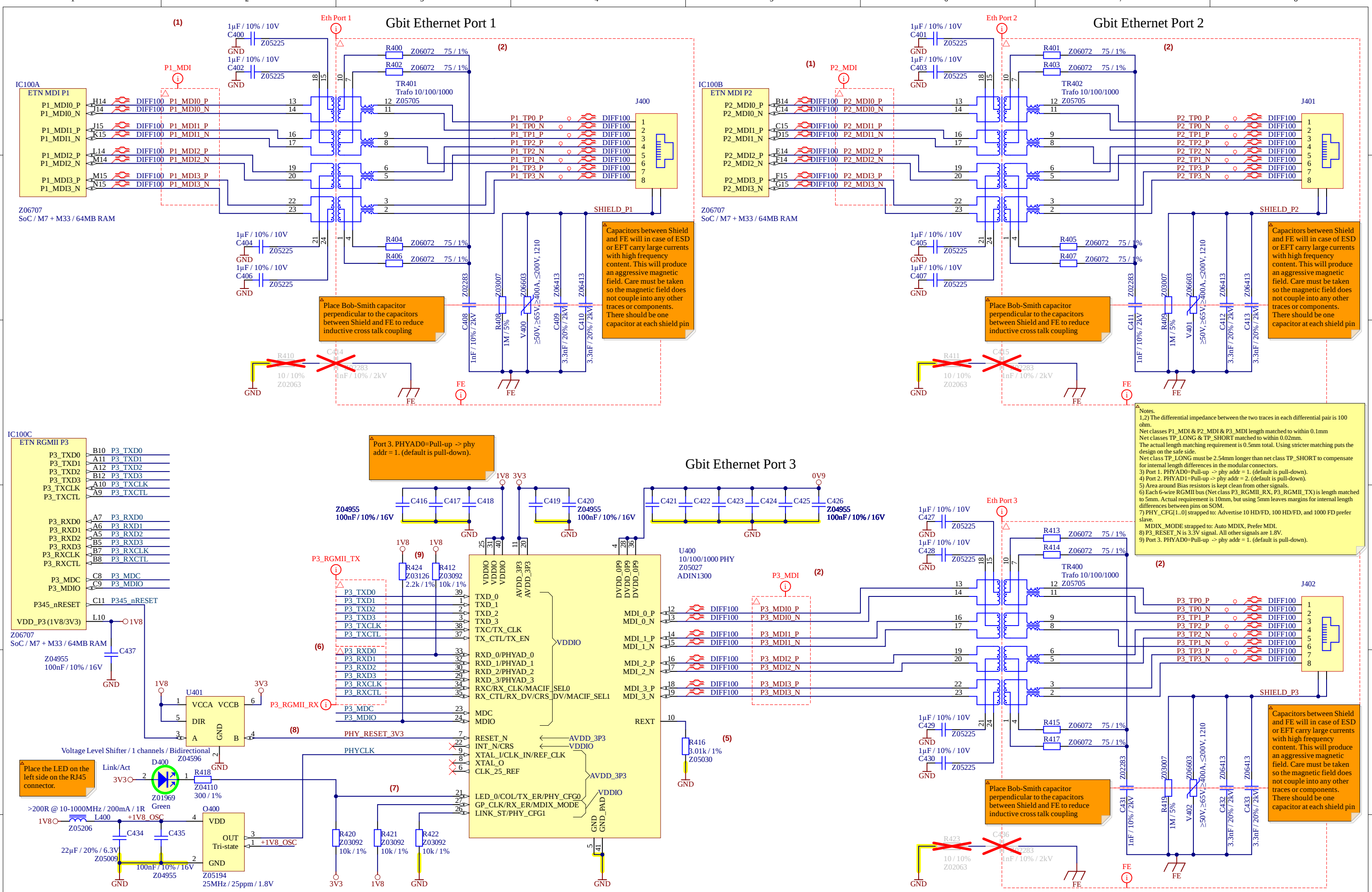
	10	10.1	9.9	kohm
R(fbt)	10	10.1	9.9	kohm
R(fbb)	2.2	2.178	2.222	kohm
V(out)	3.327	3.382	3.273	V
Tolerance	2.496	-0.810	%	

U501 provides 1A @ 0.9 V
Vfb is 0.6 V ±2%
Vout = (R501+R503)/R503*Vfb = 30k/20k*0.6 = 0.9 V
Voutmax = (R501max+R503min)/R503min*Vfbmax = 0.918V
Voutmin = (R501min+R503max)/R503max*Vfbmin = 0.881V
The limits for the PHY are 0.855..0.945 V. With a ripple of ±20 mV, the margin would still be 20 % (5 mV).

IC100H		Core (1V8)		Baldur		Reserved1		Reserved1	
RESETn_IN	B4	RESETn_IN	B4	RESETn_IN	B4	Reserved1	D5	Reserved2	D5
RESETn_OUT	C4	RESETn_OUT	C4	RESETn_OUT	C4	Reserved2	D6	Reserved3	D6
WAKEUP	D4	WAKEUP	D4	WAKEUP	D4	Reserved3	D7	Reserved4	D7
ONOFF	E4	ONOFF	E4	ONOFF	E4	Reserved4	D8	Reserved5	D8
DAC_OUT	M4	DAC_OUT	M4	DAC_OUT	M4	Reserved5	D9	Reserved6	D9
GPIO_B2_00	F4	GPIO_B2_00	F4	GPIO_B2_00	F4	Reserved6	D10	Reserved7	D10
GPIO_B2_01	D3	GPIO_B2_01	D3	GPIO_B2_01	D3	Reserved7	D11	Reserved8	D11
GPIO_B2_02	C3	GPIO_B2_02	C3	GPIO_B2_02	C3	Reserved8	D12	Reserved9	D12
GPIO_BB5M_00	E3	GPIO_BB5M_00	E3	GPIO_BB5M_00	E3	Reserved9	E5	Reserved10	E5
GPIO_BB5M_05	F3	GPIO_BB5M_05	F3	GPIO_BB5M_05	F3	Reserved10	E6	Reserved11	E6
GPIO_EMC_B1_13	A3	GPIO_EMC_B1_13	A3	GPIO_EMC_B1_13	A3	Reserved11	E7	Reserved12	E7
GPIO_EMC_B1_17	B3	GPIO_EMC_B1_17	B3	GPIO_EMC_B1_17	B3	Reserved12	E8	Reserved13	E8
ECAT_Sync_out0	M3	ECAT_Sync_out0	M3	ECAT_Sync_out0	M3	Reserved13	E9	Reserved14	E9
ECAT_Sync_out1	K3	ECAT_Sync_out1	K3	ECAT_Sync_out1	K3	Reserved14	E10	Reserved15	E10
ECAT_Latch_in0	J3	ECAT_Latch_in0	J3	ECAT_Latch_in0	J3	Reserved15	E11	Reserved16	E11
ECAT_Latch_in1	N2	ECAT_Latch_in1	N2	ECAT_Latch_in1	N2	Reserved16	E12	Reserved17	E12
						Reserved17	G5	Reserved18	G5
						Reserved18	H4	Reserved19	H4
						Reserved19	H5	Reserved19	H5







	HMS Industrial Networks AB Stationsgatan 37 302 50 Halmstad, SWEDEN www.hms-networks.com	Title Anybus ONE - Evaluation board	Part Ethernet.SchDoc	Variant Original	Designer RoG	BU INT	Date 2026-06-10	Sheet 6 / 9
CONFIDENTIAL This document is confidential property of HMS Industrial Networks AB. Unauthorized reproduction or use is prohibited. (C) HMS Industrial Networks AB. All rights reserved.		Document Number SDC-8564-001	Project Revision	HW Number				

