



Designing Expansion Boards for the Motorola MPC555EVB/ETAS ES200

By Randy Dees — June 25, 2000

1 Introduction

The Motorola MPC555EVB/ETAS ES200 evaluation board was designed with multiple interfaces to allow flexibility for expansion. There are three sets of connectors for expansion. The MAPI-400+100 is on the bottom side of the board and has access to all signals required to interface to a user application board. The host communication expansion (HCE) connectors allow access to the bus of the MPC555. The customized communication expansion (CCE) allows access to some of the MPC555 on-chip communication ports. The HCE and the CCE are on the top side of the EVB555.

2 The Host Communication Expansion Connector (HCE)

The host communication expansion connectors on the EVB555 are designed for use as an expansion of the external bus of the MPC555. They could be used to add additional memory or additional peripherals. There are two 60-pin connectors (CO106 – A and CO107 – B) part number Samtec TFM-130-12-S-D-P. The matching connector required on the expansion board is SFM-130-02-S-D-P. The pin-out of the HCE is shown in [Table 1](#). The two connectors are mounted on 1.8 inch (45.72 mm) centers. This allows for a board of approximately three square inches.

NOTE

An ETAS ETK interface may be mounted above the HCE board. The total height (including the connectors on the EVB555 and all components on the HCE board) must be below 0.6875 inches to allow clearance of the ETK board.

2.1 Memory Chips On The HCE

All 32 bits of the MPC555 data bus are available on the HCE connectors. Memory boards designed for these connectors should use all 32 bits for the best performance. On a full-featured board, utilizing memories less than 32 bits wide, the memory can be implemented with multiple chips. For 16-bit wide memories, two chips should be used. Provisions should be made on the expansion board to allow the second memory to be disabled to allow for smaller bus widths on the EVB555. 16-bit only memories should be connected to D0-D15 of the data bus. $\overline{CS2}$ is available for use on the HCE board. If non-volatile memories are used, $\overline{CS0}$ could also be used to allow for booting from the external memory. (It is not possible to boot from the Texas Instruments TMS28F033 on the EVB555.) If $\overline{CS0}$ is used, the TMS28F033 can be disabled by using the $\overline{SGF_SEL}$ signal on pin 160 of the ETK connector (CO508). A logic high (default) enables the EVB555 on-board external flash memory. In addition, \overline{CSHCE} could be used if the chip timing is the same as used by the memory on the EVB555 and can fit in a 1-Mbyte memory size.

2.2 Peripherals On The HCE

Peripherals can also be added on to the HCE bus. Chip selects $\overline{CS2}$ and $\overline{CS3}$ are available on the HCE connectors. In addition, \overline{CSHCE} could be used if the chip timing is the same as used by the memory on the EVB555 and can fit in a 1-Mbyte memory size. Peripherals that could be added include more serial ports, an ethernet adapter, or USB circuitry.

This document contains information on a new product. Specifications and information herein are subject to change without notice.



Table 1 Host Communication Expansion Connector

A (CO106)			B (CO107)		
PIN NAME			PIN NAME		
VCC3_3	1	•	VCC3_3	1	•
VCC5	3	•	VSTBY3_3	3	•
SDATA31	5	•	SADDR31	5	•
SDATA29	7	•	SADDR29	7	•
SDATA27	9	•	SADDR27	9	•
SDATA25	11	•	SADDR25	11	•
SDATA23	13	•	SADDR23	13	•
SDATA21	15	•	SADDR21	15	•
SDATA19	17	•	SADDR19	17	•
SDATA17	19	•	SADDR17	19	•
SDATA15	21	•	SADDR15	21	•
SDATA13	23	•	SADDR13	23	•
SDATA11	25	•	SADDR11	25	•
SDATA9	27	•	SADDR9	27	•
SDATA7	29	•	GND	29	•
SDATA5	31	•	N/C	31	•
SDATA3	33	•	$\overline{CS0}$	33	•
SDATA1	35	•	$\overline{CS2}$	35	•
GND	37	•	\overline{OE}	37	•
N/C	39	•	N/C	39	•
$\overline{WE_AT0}$	41	•	\overline{BURST}	41	•
$\overline{WE_AT2}$	43	•	TP113	43	•
N/C	45	•	\overline{TA}	45	•
TSIZ1	47	•	\overline{TS}	47	•
N/C	49	•	TP114	49	•
$\overline{PORESET}$	51	•	$\overline{BB/VF2/IWP3}$	51	•
N/C	53	•	$\overline{BG/VF0/LWP1}$	53	•
TP109	55	•	CLKOUT	55	•
TP111	57	•	TP116	57	•
GND	59	•	GND	59	•

NOTES:

1. EVB555 boards (revision 1.1/1.2) can be modified by connecting pin 58 (TP112) to pin 78 (\overline{DIS}) of the TI Flash (IC400). This allows the TI Flash to be disabled and $\overline{CS0}$ to be useable by other devices. TP112 can then be pulled to ground through a 2K Ω resistor. In addition, pin 6 of IC403 (/SGEOF) should be connected to pin 17 of RN303, a spare pullup resistor, to prevent the floating input of IC403.

NOTE: these changes disable the external reset configuration word drivers on the EVB555 and may cause limitations with the ETAS ETK.

2.3 HCE Board Dimensions

Figure 1 and **Table 2** show the maximum board dimensions for boards designed to interface to the HCE connectors. Surface mount components should be used to keep the total height of the HCE board and connectors to 0.6875 inches (17.46 mm) to avoid interference with the optional ETAS ETK interface.

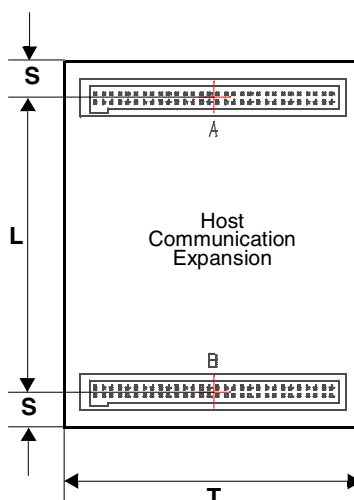


Figure 1 HCE Board Layout

Table 2 HCE Board Dimensions

Dimension	Millimeters	Inches
L	45.72	1.800
S	6.35	0.250
T	44.45	1.75

3 The Customized Communication Expansion Connectors (CCE)

The customized communication expansion connectors on the EVB555 allows access to the MPC555 on-chip communication ports. The EVB555 provides for RS-232 drivers and DB9 connector for the SCI1 channel of the MPC555. The CCE allows for customized connections to all of the MPC555 QSMCM and TouCAN interfaces. There are two 20 pin connectors (CO104 – A and CO105 – B) part number Samtec TFM-110-12-S-D-P. The matching connector required on the expansion board is SFM-110-02-S-D-P. The pin-out of the CCE is shown in [Table 3](#).

NOTE

The TXD1 and RXD1 are, by default, connected to the on board RS-232 driver. These can optionally be brought to the TXD_CCE (7) and RXD_CCE (8) pins of connector CO105 by changing the position of the 0Ω resistors on BR100 and BR101 from position 1-2 to position 2-3.



Table 3 Customized Communication Expansion Connector

A (CO104)				B (CO105)			
PIN NAME				PIN NAME			PIN NAME
VCC3_3	1	•	•	VCC3_3	1	•	VCC3_3
VCC5	3	•	•	VCC5	3	•	VSTBY3_3
N/C	5	•	•	N/C	5	•	N/C
B_CNTX0	7	•	•	B_CNRX0	7	•	RXD_CCE
TP100	9	•	•	TP101	9	•	TP104
GND	11	•	•	GND	11	•	GND
A_CNTX0	13	•	•	A_CNRX0	13	•	TP106
TP102	15	•	•	TP103	15	•	RXD2
SRESET	17	•	•	PORESET	17	•	TP118
GND	19	•	•	GND	19	•	GND

3.1 CCE Board Dimensions

Figure 2 and **Table 4** show the maximum board dimensions for boards that attach the EVB555 CCE connector.

NOTE

Boards can extend off of the EVB for connectors. It is recommended that mounting hardware be supplied to attach the CCE board to the EVB.

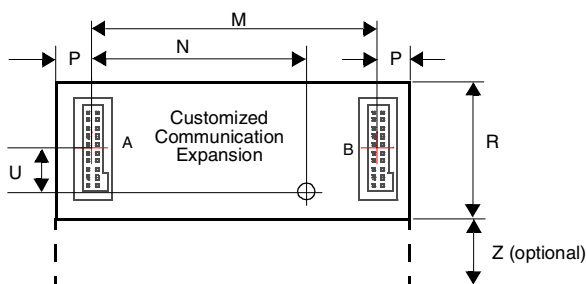


Figure 2 CCE Board Size

Table 4 CCE Board Dimensions

Dimension	Millimeters	Inches
M	44.45	1.750
N	32.385	1.275
U	6.35	0.25
P	6.35	0.250
R	22.23	0.875
Z	12.7	0.50



4 The MAPI-400+100 Connectors

The MAPI-400+100 is an extension of the Motorola MAPI-400 interface that is used on the Motorola M•Core products. An additional 100 pin connector was added to support the additional general purpose Input/Output pins from the Port Replacement Unit of the EVB555.

NOTE

Boards designed to interface to M•Core MAPI-400 boards may not work with the EVB555.

Use of the MAPI-400 signals on the EVB555 is described in the ETAS [EVB555 Quick Reference Guide](#).

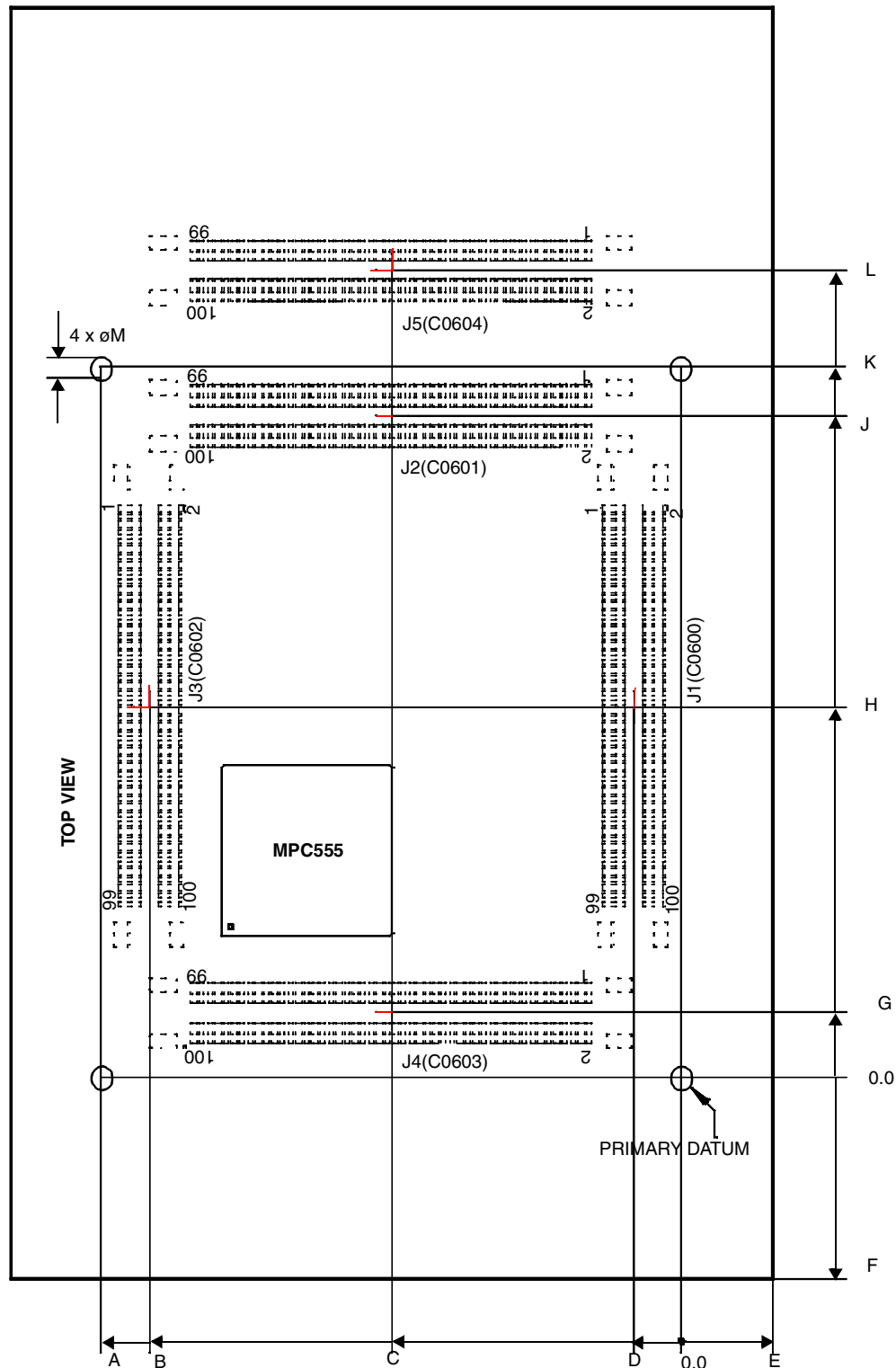


Figure 3 MAPI-400+100 Footprint



Table 5 MAPI-400+100 Dimensions

Dimension	Millimeters	Inches
B	83.82	3.300
C	45.72	1.800
D	7.62	0.300
E	14.22	0.560
F	31.78	1.250
G	10.16	0.400
H	58.42	2.300
I	104.14	4.100
K	111.76	4.400
L	127.00	5.000
M	3.20	0.126



Table 1: MAPI-400 Signal Definitions

J1 (CO600)					J2 (CO601)						
PIN NAME				PIN NAME	PIN NAME		PIN NAME				
AAN51_PQB7	1	•	•	2	1	•	•	2	AAN50_PQB6		
AAN52_PQA0	3	•	•	4	3	•	•	4	AAN49_PQB5		
AAN53_PQA1	5	•	•	6	5	•	•	6	AAN48_PQB4		
AAN54_PQA2	7	•	•	8	7	•	•	8	AAN3_PQB3		
AAN55_PQA3	9	•	•	10	9	•	•	10	AAN2_PQB2		
AAN56_PQA4	11	•	•	12	11	•	•	12	AAN1_PQB1		
AAN57_PQA5	13	•	•	14	13	•	•	14	AAN0_PQB0		
AAN58_PQA6	15	•	•	16	15	•	•	16			
AAN59_PQA7	17	•	•	18	Ground	17	•	•	18	Ground	
	19	•	•	20		19	•	•	20		
	21	•	•	22	MDA11	21	•	•	22	MDA12	
	23	•	•	24	MDA13	23	•	•	24	MDA14	
	25	•	•	26	MDA15	25	•	•	26	MDA27	
A_TPUCH0	27	•	•	28	Ground	MDA28	27	•	•	28	MDA29
A_TPUCH1	29	•	•	30	MPWM0		29	•	•	30	HRESETB
A_TPUCH2	31	•	•	32	MPWM1	ETRIG1	31	•	•	32	EXTCLK
A_TPUCH3	33	•	•	34		ETRIG2	33	•	•	34	BBB_IWP3
A_TPUCH4	35	•	•	36	MPWM2	BDIP	35	•	•	36	BGB_LWP1
A_TPUCH5	37	•	•	38	MPWM3	BIB_STSB	37	•	•	38	BRB_IWP2
A_TPUCH6	39	•	•	40		BURSTB	39	•	•	40	SGP_IRQOUTB
Ground	41	•	•	42	MPWM16	TSB	41	•	•	42	EPEE
A_TPUCH7	43	•	•	44	MPWM17	Ground	43	•	•	44	
A_TPUCH8	45	•	•	46	Ground		45	•	•	46	Ground
A_TPUCH9	47	•	•	48	MPWM18	ECK	47	•	•	48	ENGCLK/BUCLK
A_TPUCH10	49	•	•	50	MPWM19	RXD1_QGPI	49	•	•	50	TXD1_QGPO
A_TPUCH11	51	•	•	52		RXD2_QGPI	51	•	•	52	TXD2_QGPO
A_TPUCH12	53	•	•	54	A_TPUCH15		53	•	•	54	
A_TPUCH13	55	•	•	56	A_T2CLK		55	•	•	56	
A_TPUCH14	57	•	•	58			57	•	•	58	
	59	•	•	60			59	•	•	60	
IRQ1B_SGP	61	•	•	62	IRQ0B_SGP	MDA30	61	•	•	62	
IRQ3B_SGP	63	•	•	64	IRQ2B_SGP	Ground	63	•	•	64	Ground
IRQ5B_SGP	65	•	•	66	IRQ4B_SGP	MDA31	65	•	•	66	MPIO5
IRQ7B_mck3	67	•	•	68	IRQ6B_mck2	MPIO6	67	•	•	68	MPIO7
	69	•	•	70		MPIO8	69	•	•	70	MPIO9
Ground	71	•	•	72		MPIO10	71	•	•	72	MPIO11
	73	•	•	74	Ground	MPIO12	73	•	•	74	MPIO13
	75	•	•	76		MPIO14	75	•	•	76	MPIO15
	77	•	•	78			77	•	•	78	
	79	•	•	80			79	•	•	80	
	81	•	•	82			81	•	•	82	
	83	•	•	84		Ground	83	•	•	84	Ground
	85	•	•	86			85	•	•	86	
	87	•	•	88			87	•	•	88	BAN0_PQB0
Ground	89	•	•	90			89	•	•	90	BAN1_PQB1
	91	•	•	92	Ground		91	•	•	92	BAN2_PQB2
	93	•	•	94			93	•	•	94	BAN3_PQB3
	95	•	•	96			95	•	•	96	BAN48_PQB4
	97	•	•	98			97	•	•	98	BAN49_PQB5
	99	•	•	100	VPP		99	•	•	100	BAN50_PQB6

Table 6 MAPI-400 Signal Definitions

J3 (CO602)				J4 (CO603)							
PIN NAME		PIN NAME		PIN NAME		PIN NAME					
1	•	•	2		1	•	•	2			
3	•	•	4	BAN52_PQA0	Data_SGP1	3	•	•	4	Data_SGP0	
5	•	•	6	BAN53_PQA1	Data_SGP3	5	•	•	6	Data_SGP2	
7	•	•	8	BAN54_PQA2	Data_SGP5	7	•	•	8	Data_SGP4	
9	•	•	10	BAN55_PQA3	Data_SGP7	9	•	•	10	Data_SGP6	
11	•	•	12	BAN56_PQA4	Data_SGP9	11	•	•	12	Data_SGP8	
13	•	•	14	BAN57_PQA5	Data_SGP11	13	•	•	14	Data_SGP10	
15	•	•	16	BAN58_PQA6	Ground	15	•	•	16	Ground	
17	•	•	18	BAN59_PQA7	Data_SGP13	17	•	•	18	Data_SGP12	
19	•	•	20		Data_SGP15	19	•	•	20	Data_SGP14	
21	•	•	22		Data_SGP17	21	•	•	22	Data_SGP16	
23	•	•	24		Data_SGP19	23	•	•	24	Data_SGP18	
Ground	25	•	•	26	B_TPUCH0	Data_SGP21	25	•	•	26	Data_SGP20
A_CNRX0	27	•	•	28	B_TPUCH1	Ground	27	•	•	28	Ground
A_CNTX0	29	•	•	30	B_TPUCH2	Data_SGP23	29	•	•	30	Data_SGP22
	31	•	•	32	B_TPUCH3	Data_SGP25	31	•	•	32	Data_SGP24
B_CNRX0	33	•	•	34	B_TPUCH4	Data_SGP27	33	•	•	34	Data_SGP26
B_CNTX0	35	•	•	36	B_TPUCH5	Data_SGP29	35	•	•	36	Data_SGP28
	37	•	•	38	B_TPUCH6	Data_SGP31	37	•	•	38	Data_SGP30
SCK_QGP6	39	•	•	40	B_TPUCH7	Ground	39	•	•	40	Ground
MISO_QGP4	41	•	•	42	B_TPUCH8		41	•	•	42	
Ground	43	•	•	44	B_TPUCH9		43	•	•	44	
MOSI_QGP5	45	•	•	46	B_TPUCH10		45	•	•	46	
PCS0_QGP	47	•	•	48	B_TPUCH11		47	•	•	48	
	49	•	•	50	B_TPUCH12	ADDR_SGP9	49	•	•	50	ADDR_SGP8
PCS1QGP	51	•	•	52	B_TPUCH13	ADDR_SGP11	51	•	•	52	ADDR_SGP10
PCS2QGP	53	•	•	54	B_TPUCH14	ADDR_SGP13	53	•	•	54	ADDR_SGP12
	55	•	•	56	B_TPUCH15	ADDR_SGP15	55	•	•	56	ADDR_SGP14
PCS3QGP	57	•	•	58	B_T2CLK	Ground	57	•	•	58	Ground
	59	•	•	60		ADDR_SGP17	59	•	•	60	ADDR_SGP16
	61	•	•	62	VF0_MPIO0	ADDR_SGP19	61	•	•	62	ADDR_SGP18
	63	•	•	64	VF1_MPIO1	ADDR_SGP21	63	•	•	64	ADDR_SGP20
Ground	65	•	•	66	VF2_MPIO2	ADDR_SGP23	65	•	•	66	ADDR_SGP22
VFLS0_MPIO3	67	•	•	68	Ground	ADDR_SGP25	67	•	•	68	ADDR_SGP24
VFLS1_MPIO4	69	•	•	70		ADDR_SGP27	69	•	•	70	ADDR_SGP26
IWP0_VFLS	71	•	•	72		ADDR_SGP29	71	•	•	72	ADDR_SGP28
IWP1_VFLS	73	•	•	74		ADDR_SGP31	73	•	•	74	ADDR_SGP30
	75	•	•	76		Ground	75	•	•	76	Ground
PORESETB	77	•	•	78		TAB	77	•	•	78	TEAB
	79	•	•	80	TDO_DSDO		79	•	•	80	WEB_AT[0]
Ground	81	•	•	82	TDI_DSDI	RD_WRB	81	•	•	82	WEB_AT[1]
TMS	83	•	•	84		Ground	83	•	•	84	WEB_AT[2]
TCK_DSCK	85	•	•	86	TSIZ0	CS0B	85	•	•	86	WEB_AT[3]
TRST_B	87	•	•	88	TSIZ1	CS1B	87	•	•	88	OEB
SRESET	89	•	•	90	RSTCONF/TEXP	CS2B	89	•	•	90	
Ground	91	•	•	92		CS3B	91	•	•	92	
	93	•	•	94	FRZ_PTR	Ground	93	•	•	94	
Ground	95	•	•	96		CLKOUT	95	•	•	96	Ground
Ground	97	•	•	98		Ground	97	•	•	98	
	99	•	•	100			99	•	•	100	



Table 7 MAPI-400 +100 PRU Extended Signal Definitions

J5 (CO605)			
PIN NAME			PIN NAME
B_PIO0	1	•	2 A_PIO0
B_PIO1	3	•	4 A_PIO1
B_PIO2	5	•	6 A_PIO2
B_PIO3	7	•	8 A_PIO3
B_PIO4	9	•	10 A_PIO4
B_PIO5	11	•	12 A_PIO5
B_PIO6	13	•	14 A_PIO6
Ground	15	•	16 Ground
B_PIO7	17	•	18 A_PIO7
B_PIO8	19	•	20 A_PIO8
B_PIO9	21	•	22 A_PIO9
B_PIO10	23	•	24 A_PIO10
B_PIO11	25	•	26 A_PIO11
Ground	27	•	28 Ground
B_PIO12	29	•	30 A_PIO12
B_PIO13	31	•	32 A_PIO13
B_PIO14	33	•	34 A_PIO14
B_PIO15	35	•	36 A_PIO15
B_PIO16	37	•	38 A_PIO16
Ground	39	•	40 Ground
B_PIO17	41	•	42 A_PIO17
B_PIO18	43	•	44 A_PIO18
B_PIO19	45	•	46 A_PIO19
B_PIO20	47	•	48 A_PIO20
B_PIO21	49	•	50 A_PIO21
B_PIO22	51	•	52 A_PIO22
B_PIO23	53	•	54 A_PIO23
B_PIO24	55	•	56 A_PIO24
Ground	57	•	58 Ground
B_PIO25	59	•	60 A_PIO25
B_PIO26	61	•	62 A_PIO26
B_PIO27	63	•	64 A_PIO27
B_PIO28	65	•	66 A_PIO28
B_PIO29	67	•	68 A_PIO29
B_PIO30	69	•	70 A_PIO30
B_PIO31	71	•	72 A_PIO31
	73	•	74
Ground	75	•	76 Ground
	77	•	78
	79	•	80
	81	•	82
Ground	83	•	84
/EXTBUS	85	•	86 STANDBY
	87	•	88
Ground	89	•	90 Ground
Ground	91	•	92 Ground
Ground	93	•	94 Ground
UB2	95	•	96 UB2
UB2	97	•	98 UB2
UB2	99	•	100 UB2

5 Lauterbach Trace Connector

The MPC555EVB includes a 64-pin connector to allow trace tools, such as Lauterbach's Trace-32, a simple connection to the signals required for trace.



Table 8 Lauterbach Universal MPC500/800 Family Trace Adapter Connector

CO500			
PIN NAME			PIN NAME
ADDR20	1	•	2 ADDR21
ADDR11	3	•	4 ADDR22
ADDR19	5	•	6 ADDR23
ADDR18	7	•	8 ADDR24
ADDR17	9	•	10 ADDR12
DATA11	11	•	12 ADDR13
RD_W \overline{R}	13	•	14 ADDR14
DATA8	15	•	16 ADDR15
VCC3_3	17	•	18 ADDR16
DATA3	19	•	20 $\overline{WE_AT2}$
DATA2	21	•	22 IRQOUT_LWP0
DATA1	23	•	24 $\overline{WE_AT3}$
DATA0	25	•	26 $\overline{BR_VF1_IWP2}$
VCC5	27	•	28 DATA10
$\overline{WE_AT0}$	29	•	30 DATA9
GND	31	•	32 IWP0_VFLS0
CLKOUT	33	•	34 IWP1_VFLS1
$\overline{WE_AT1}$	35	•	36 $\overline{BG_VF0_LWP1}$
DATA7	37	•	38 $\overline{BB_VF2_LWP3}$
DATA6	39	•	40 ADDR10
DATA5	41	•	42 ADDR9
GND	43	•	44 ADDR8
DATA4	45	•	46 $\overline{BI_STS}$
ADDR26	47	•	48 TS
ADDR29	49	•	50 $\overline{FRZ_PTR}$
ADDR30	51	•	52 VFLS0_MPIO3
ADDR27	53	•	54 VFLS1_MPIO4
ADDR31	55	•	56 VF1_MPIO1
ADDR28	57	•	58 VF0_MPIO0
ADDR25	59	•	60 VF2_MPIO2
$\overline{RSTCONF}$	61	•	62 $\overline{IRQ3_KR}$
\overline{HRESET}	63	•	64 $\overline{IRQ4_AT2}$

6 Mounting Holes

Figure 4 shows the mounting holes available to mount the EVB555 to other boards. **Table 9** shows the dimensions of the connectors on the top side of the board.

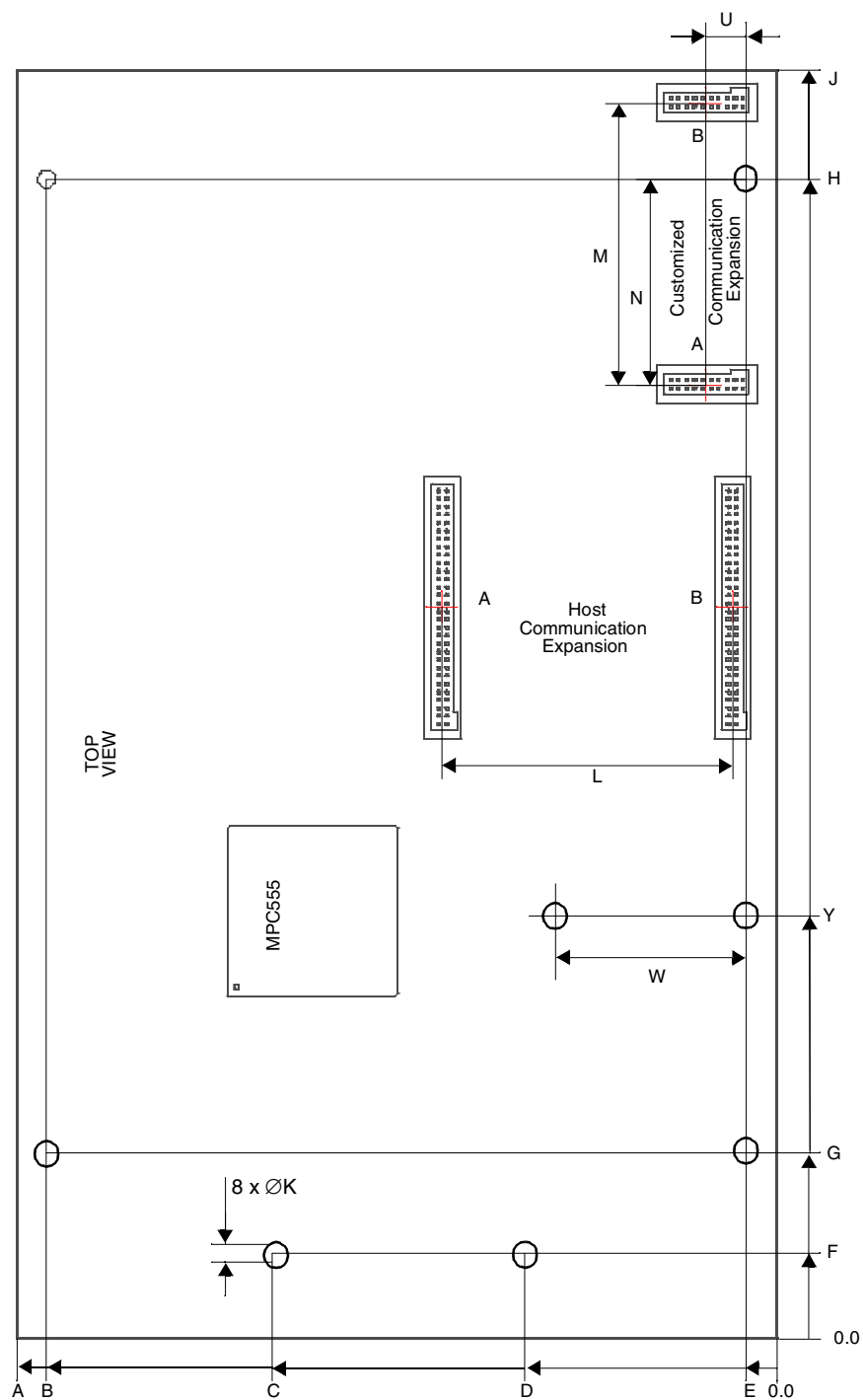


Figure 4 Mounting Holes and Top-Side Connector Dimensions

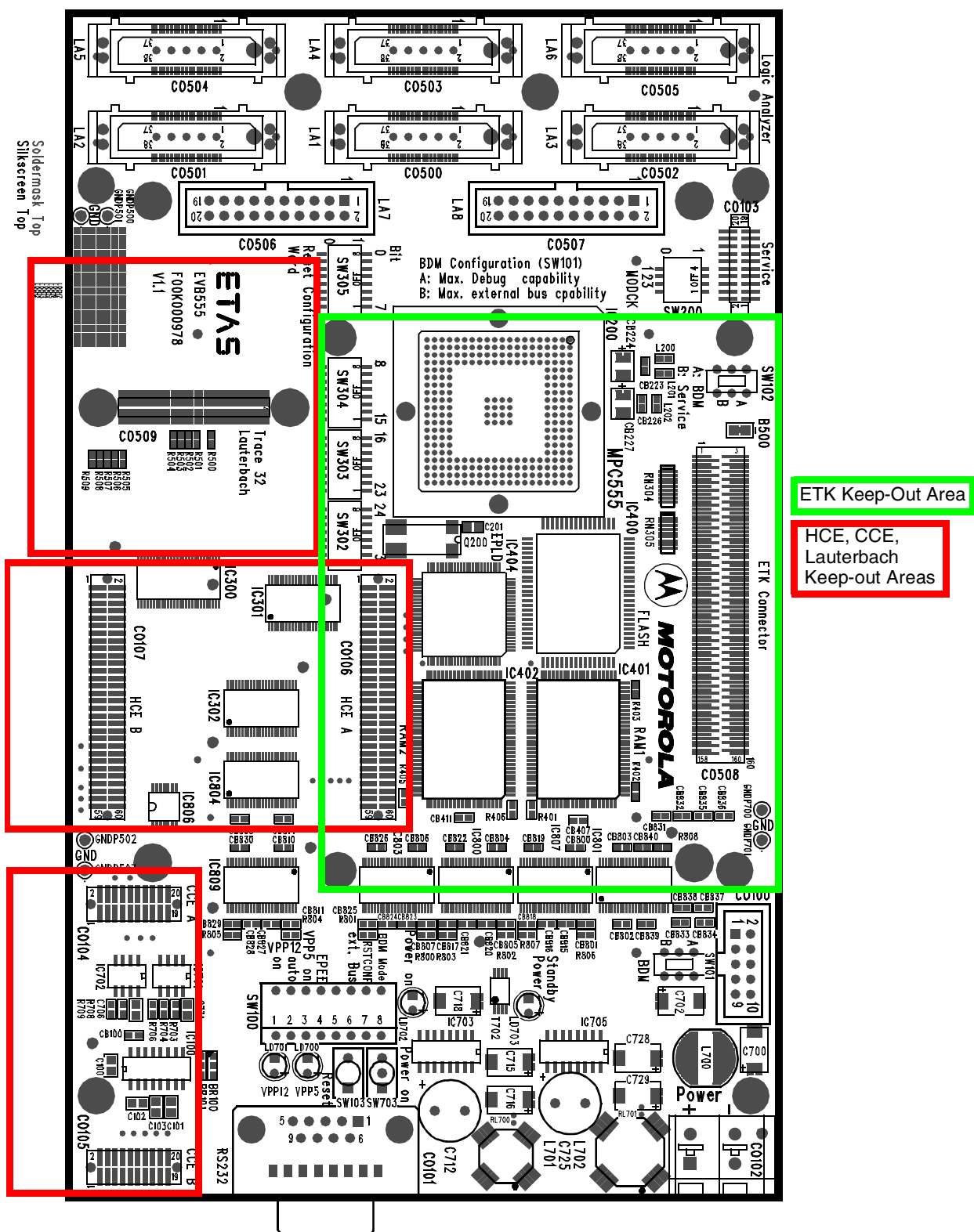


Table 9 Top Dimensions

Dimension	Millimeters	Inches
A	120.00	4.724
B	115.19	4.535
C	79.63	3.135
D	39.63	1.560
E	4.70	0.185
F	13.34	0.525
G	29.22	1.150
H	182.89	7.200
J	200.00	7.874
K	2.80	0.110
L	45.72	1.800
M	44.45	1.750
N	32.385	1.275
U	6.35	0.250
W	32.39	1.275
Y	66.675	2.625

7 Keep-Out Areas

All of the connectors on the top side of the EVB555 have keep-out areas associated with them to accommodate any board that could be connected to the expansion connectors. [Figure 5](#) shows the various keep-out areas.



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8 Summary of Connectors

Table 10 shows the number and types of each kind of user extension connectors on the EVB555. Shown are the part numbers for the connectors on the EVB555 and the part numbers for connectors that are required for a user board.

Table 10 Summary Of Connectors

Connector	Number of Connectors on Board	EVB555 Connector Part Number	User Board Connector Part Number (Surface Mount)	User Board Connector Part Number (Through Hole)
CO100 Background Debug Mode Interface	1 each	3M 925320-01-10-10	3M 8510-4500 JL (board mount)	3M CHG-2010-J01010-KCP (wire mount)
CO104/CO105 Customized Communication Expansion	2 each	Samtec TFM-110-12-S-D-P	Samtec SFM-110-02-S-D-P	
CO106/CO107 Host Communication Expansion	2 each	Samtec TFM-130-12-S-D-P	Samtec SFM-130-02-S-D-P	
CO500-505 Mictor Digital Logic Analyzer	6 each	AMP 767 004 product code 2429		
CO506/CO507 Analog Logic Analyzer	2 each	3M 925320-01-20-10	3M 8520-4500 (board mount)	3M CHG-2020-J01010-KCP (wire mount)
CO509 Lauterbach Interface	1 each	Samtec FTE-132-02-G-DV-P	Samtec CLE-132-01-G-DV-P	
CO600-604 MAPI-400+100	5 each	Robinson Nugent P50L-100 S-BS-TGF	Robinson Nugent P50L-100 P-AS-TGF	

9 Reference

For more information see the following reference material.

9.1 MPC555 User's Manual

The ***MPC555 User's Manual (MPC555UM/AD)*** is available from Motorola and describes the MPC555 device. The URL for the Motorola website is <http://www.mcu.motps.com/lit/mpc.html>.

9.2 EVB555

MPC555 Evaluation Board Quick Reference, ETAS

9.3 SAMTEC Connectors

Samtec has board layout recommendations and specifications for all of their connectors available on-line. The URL for this website is <http://www.samtec.com>.

9.4 Robinson Nugent Connector

Further information on the Robinson Nugent connectors is available on-line. The URL for this website is <http://www.robinsonnugent.com>. At that site, search for P50L connectors.

9.5 Lauterbach

More information on the Lauterbach real-time trace module is available on-line. The URL for this website is <http://www.lauterbach.de>.










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