

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0753310667

Status:

Active

Overview:

gbx_backplane_connector_system

Description:

1.85mm by 1.85mm (.073 by .073") Pitch 3-Pair GbX® Backplane Connector System, Power Module, 6 Circuits, 1.27µm (50µ") Gold (Au)

Documents:

Drawing (PDF)

Product Specification PS-75221-999 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

UL

E29179

General

Product Family

Backplane Connectors

Series

75331

Application

Backplane

Application Tooling Documents

Tooling Manual

Comments

Blade Length A 6.00mm, B 6.00mm, C 7.50mm

Component Type

Power Header

Overview

gbx_backplane_connector_system

Product Name

GbX®

Style

N/A

Physical

Circuits (Loaded)

6

Circuits (maximum)

6

Circuits Detail

Rows A, B & C

Color - Resin

Gray (Dark)

Durability (mating cycles max)

200

First Mate / Last Break

Yes

Flammability

94V-0

Guide to Mating Part

No

Keying to Mating Part

None

Material - Metal

High Performance Alloy (HPA)

Material - Plating Mating

Gold

Material - Plating Termination

Tin-Lead

Material - Resin

High Temperature Thermoplastic

Number of Columns

N/A

Number of Pairs

3

Number of Rows

3

Orientation

Vertical

PC Tail Length (in)

0.090 In

PC Tail Length (mm)

2.28 mm

PCB Locator

Yes

PCB Retention

Yes

PCB Thickness Recommended (in)

0.063 In

PCB Thickness Recommended (mm)

1.60 mm

Packaging Type

Tube

Pitch - Mating Interface (in)

0.000 In

Pitch - Mating Interface (mm)

0.00 mm

Pitch - Term. Interface (in)

0.102 In

Pitch - Term. Interface (mm)

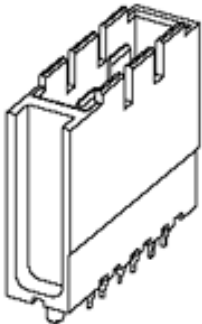
2.60 mm

Plating min: Mating (µin)

50

Plating min: Mating (µm)

1.25



Series
image - Reference only

EU RoHS

RoHS Compliant by Exemption

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free

China RoHS

50

Pb

Need more information on product environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series
75331Series

Mates With
75292 GbX® Daughtercard

Application Tooling FAQ	
Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.	
Global	
Description	Product #
GbX® Single Pin Repair Tool	0622022090
GbX® Shield Removal Tool	0622022100
GbX® 3 Pair 1-Up Power Module	0622022580

Plating min: Termination (μin)	30
Plating min: Termination (μm)	0.75
Polarized to PCB	Yes
Stackable	No
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	105°C
Termination Interface: Style	Through Hole - Compliant Pin

Electrical

Current - Maximum per Contact	6A
Data Rate	8.0 Gbps
Real Signals (per 25mm)	0
Shield Type	N/A
Shielded	No
Voltage - Maximum	120V AC (RMS)/DC

Material Info

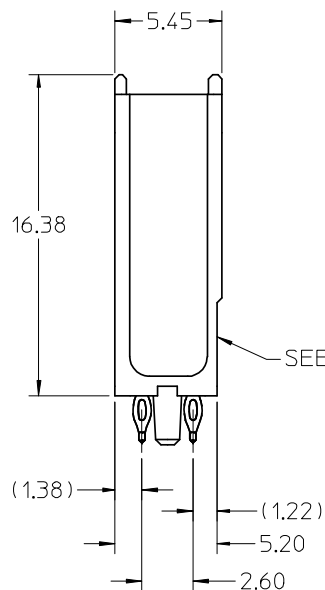
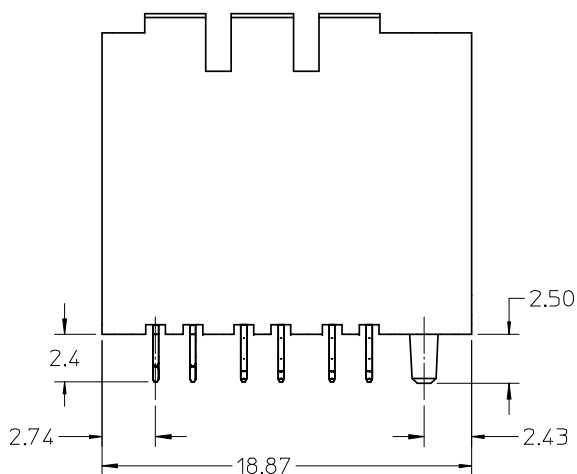
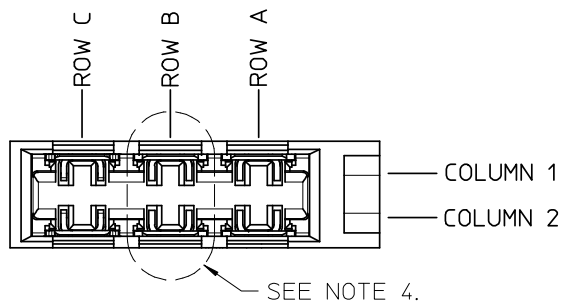
Reference - Drawing Numbers

Packaging Specification	PK-70873-571
Product Specification	PS-75221-999
Sales Drawing	SD-75331-001

GbX is a registered trademark of Amphenol Corporation.

This document was generated on 05/13/2010
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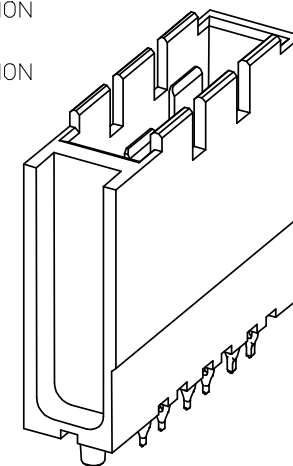


1-UP ASSEMBLY PART NUMBER

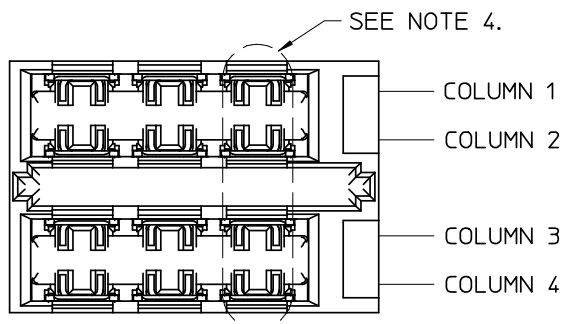
7 5 3 3 1 - 0 A B C
- TIN/LEAD PLATED PRODUCT -
FOR EACH ROW LOCATION A, B, C:
0 = VOID
4 = 4.5 mm WIPE
6 = 6.0 mm WIPE
7 = 7.5 mm WIPE
- LEAD-FREE PLATED PRODUCT -
FOR EACH ROW LOCATION A, B, C:
0 = VOID
2 = 4.5 mm WIPE
3 = 6.0 mm WIPE
5 = 7.5 mm WIPE

NOTES:

1. MATERIALS: HOUSING - LIQUID CRYSTAL POLYMER (LCP), UL 94V-0, GRAY; CONTACT - COPPER ALLOY.
2. FINISH: SELECT GOLD IN CONTACT AREA, 50 μ " THICK, TIN/LEAD OR MATTE TIN IN COMPLIANT AREA.
3. PACKAGING PER PK-70873-571.
4. CONTACTS IN EACH ROW HAVE THE SAME WIPE LENGTH.
5. BACKPLANE ASSEMBLY MATES WITH DAUGHTERCARD POWER MODULE 75292-3***.
6. PART SHOWN IS 75331-0467.
7. SEE OTHER SHEETS FOR ADDITIONAL NOTES.
8. WHEN INSERTING OPEN SIGNAL MODULES NEXT TO COLUMN 1 SIDE OF POWER MODULES, SIGNAL MODULES MUST BE INSERTED BEFORE THE POWERS TO AVOID INTERFERENCE BETWEEN THE TWO CONNECTOR HOUSINGS.
9. THESE PARTS CONFORM TO MOLEX PRODUCT SPECIFICATION PS-75221-999.
10. THESE PARTS CONFORM TO MOLEX COSMETIC SPECIFICATION PS-45499-002.



SPEC FILE CORRECTED EC NO: UCP2008-2380 TDRWNG:ADVARA 2008/03/27 CHKD: JB INGHAM 2008/03/27 APPR: JB INGHAM 2008/03/31	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY ELO	DATE 2005/02/18	TITLE GBX 3 PAIR BACKPLANE POWER SALES ASSEMBLY					
			4 PLACES	± ---	± ---	CHECKED BY ELO	DATE 2005/02/22						
			3 PLACES	± ---	± ---	APPROVED BY CUNNINGHAM		DATE 2005/02/23	MOLEX INCORPORATED				
			2 PLACES	± ---	± ---	MATERIAL NO.		DOCUMENT NO.					
			1 PLACE	± ---	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-75331-001		1 OF 4	
			ANGULAR ± ---°		SIZE B		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						



2-UP ASSEMBLY PART NUMBER

7 5 3 3 2 - 0 A B C

- TIN/LEAD PLATED PRODUCT -

FOR EACH ROW LOCATION A, B, C:

0 = VOID

4 = 4.5 mm WIPE

6 = 6.0 mm WIPE

7 = 7.5 mm WIPE

- LEAD-FREE PLATED PRODUCT -

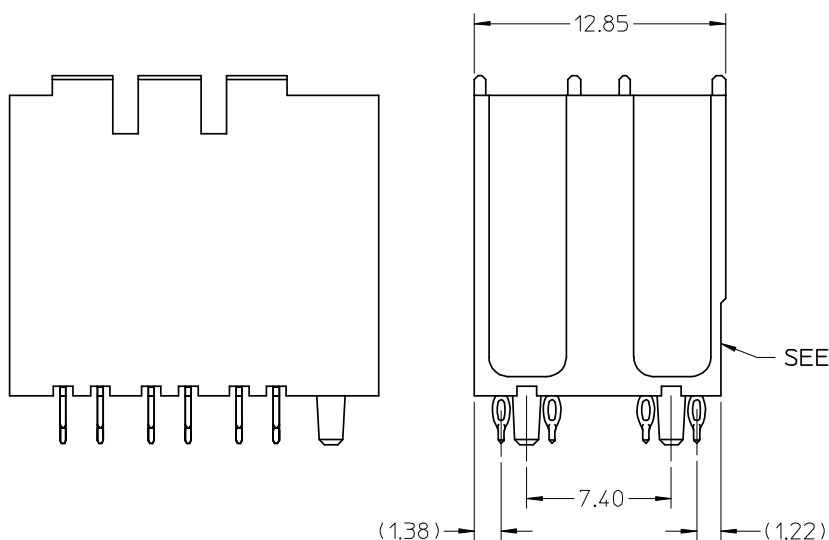
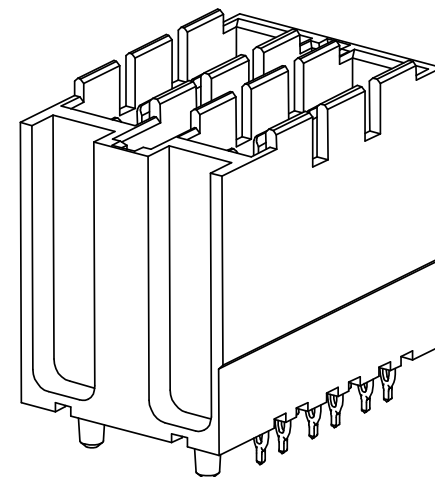
FOR EACH ROW LOCATION A, B, C:

0 = VOID

2 = 4.5 mm WIPE

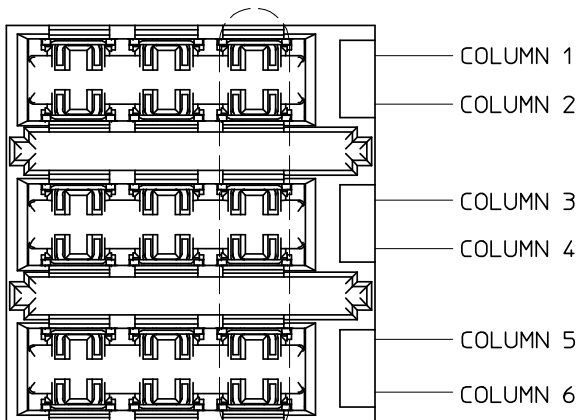
3 = 6.0 mm WIPE

5 = 7.5 mm WIPE



SEE SHEET 1 FOR ADDITIONAL INFORMATION
CHECK WITH PRODUCT MANAGER FOR AVAILABILITY

SEE SHEET ONE EC NO: UCP2008-2380 TDRW: DVARVARA 2008/03/27 CHKD: J BINGHAM 2008/03/27 APPR: J BINGHAM 2008/03/31	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY ELO	DATE 2005/02/18	TITLE GBX 3 PAIR BACKPLANE POWER SALES ASSEMBLY MOLEX INCORPORATED				
			4 PLACES	± ---	± ---	CHECKED BY ELO	DATE 2005/02/22					
			3 PLACES	± ---	± ---	APPROVED BY CUNNINGHAM	DATE 2005/02/23					
			2 PLACES	± ---	± ---	MATERIAL NO.	DOCUMENT NO.					
			1 PLACE	± ---	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-75331-001		
			ANGULAR ± ---°		SIZE B		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					



SEE NOTE 4.

3-UP ASSEMBLY PART NUMBER

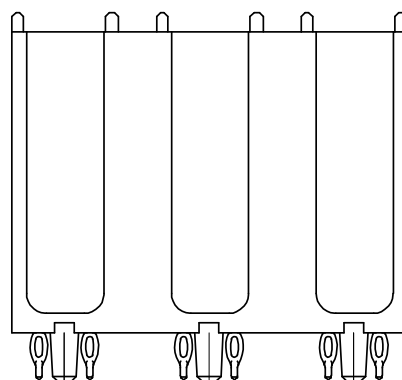
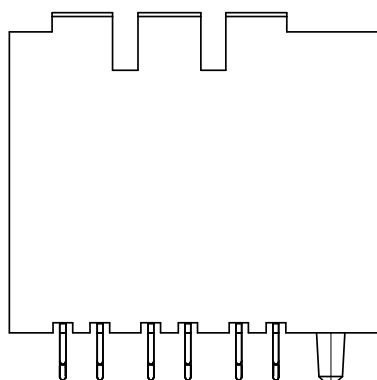
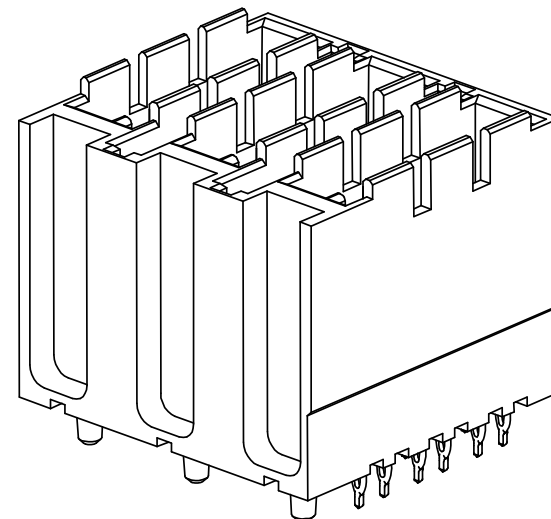
7 5 3 3 3 - 0 A B C

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6 = 6.0 mm WIPE
7 = 7.5 mm WIPE

- LEAD-FREE PLATED PRODUCT -
FOR EACH ROW LOCATION A, B, C:

0 = VOID
2 = 4.5 mm WIPE
3 = 6.0 mm WIPE
5 = 7.5 mm WIPE



SEE NOTE 8.

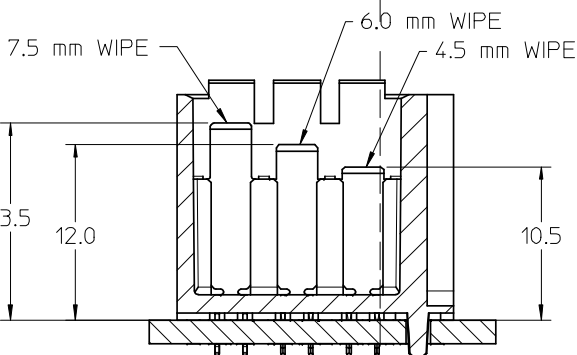
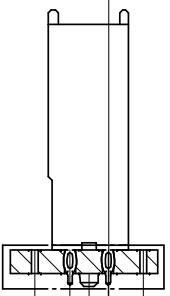
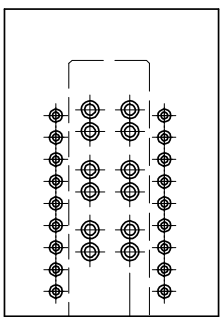
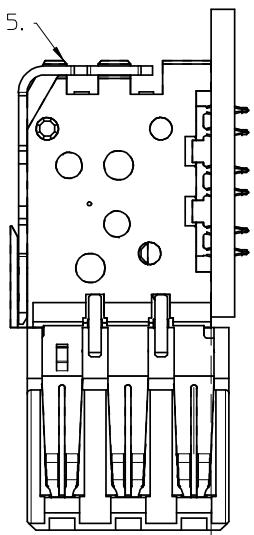
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SEE SHEET 1 FOR ADDITIONAL INFORMATION
CHECK WITH PRODUCT MANAGER FOR AVAILABILITY

SEE SHEET ONE EC NO: UCP2008-2380 TIDRWARDVARIARA 2008/03/27 CHK'D: JB INGHAM 2008/03/27 APPR: JB INGHAM 2008/03/31	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY ELO	DATE 2005/02/18	TITLE GBX 3 PAIR BACKPLANE POWER SALES ASSEMBLY				
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			3 PLACES	± ---	± ---	APPROVED BY CUNNINGHAM	DATE 2005/02/23					
			2 PLACES	± ---	± ---	MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
			1 PLACE	± ---	± ---	SEE CHART		SD-75331-001		3 OF 4		
REV			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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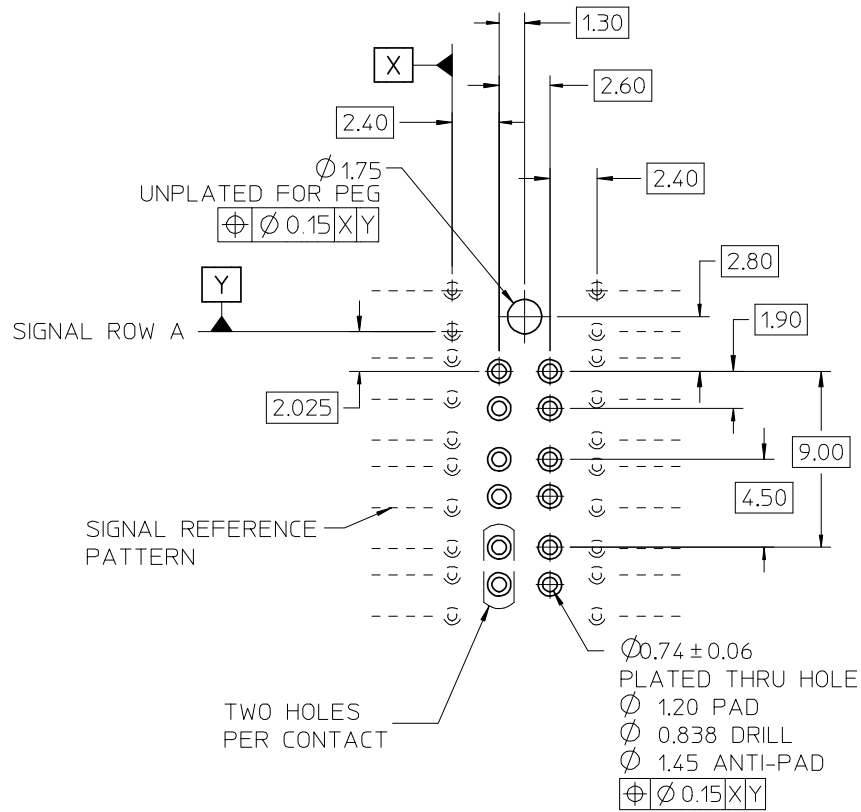
SEE NOTE 5.



DC BOARD EDGE TO
CENTERLINE OF BP TAIL

HOLE PATTERN FOR 1-UP ASSEMBLY

- 1.) ADD 7.40 FROM CENTERLINES OF PEGS FOR MULTIPLE UP ASSEMBLIES.
- 2.) ADD 5.55 FROM CENTERLINE TO CENTERLINE OF PEG FOR INDIVIDUAL POWER MODULES STACKED NEXT TO EACH OTHER.



SEE SHEET ONE EC NO: UCP2008-2380 TIDRWN: DVARVARA 2008/03/27 CHKD: JB INGHAM 2008/03/27 APPR: JB INGHAM 2008/03/31	DESCRIPTION	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
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			2 PLACES	± ---	± ---	ELO	2005/02/22	MOLEX INCORPORATED				
1 PLACE	± ---	± ---	APPROVED BY	DATE								
			ANGULAR ± ---°		CUNNINGHAM	2005/02/23	DOCUMENT NO.					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		SHEET NO.					
					SEE PREVIOUS		SD-75331-001 4 OF 4					
REV					SIZE B	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

9 8 7 6 5 4 3 2 1