

**ARCADIAN SALES.com**

The World's #1 Source for...

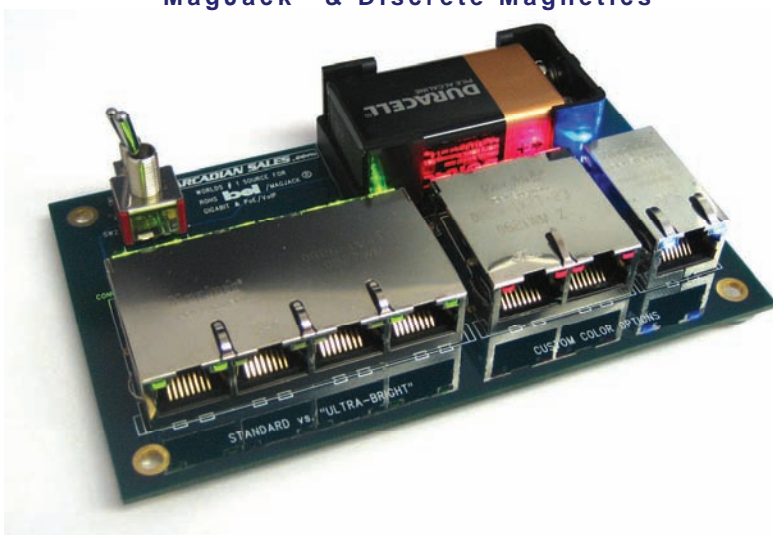
**bel**

Presents...

# R.A.P.I.D.S. 2007

Readily Available Prototypes, Introductory Designs, and Samples

MagJack® & Discrete Magnetics



Don't just buy,

**INTENSIFY !**



STANDARD



**ULTRA-BRIGHT**

Choose Ultra-Bright Bel MagJacks® from Arcadian Sales!



My name is Mike Crudele, President of **ARCADIAN SALES**, the world's #1 distributor for **Bel**, and I am excited to present this edition of our RAPIDS catalog to you. The catalog you are holding highlights Bel's MagJack® product line, specifically MagJacks® with Ultra-Bright LED's.

For a decade, Bel has been the world's #1 manufacturer of Integrated Connector Modules (ICM's). Their reputation for quality, signal integrity and minimal noise is unparalleled in the industry. Now, **ARCADIAN SALES** is offering the Mag-Jacks® that customers have come to trust with one added feature... *Ultra-Bright LED's!*

In today's networked devices, the RJ45 connector is your product's "link" to the outside world. Now, customers can get all of the quality they have come to expect from Mag-Jack® with the added benefit of Ultra-Bright colors that attract attention... the kind of attention that sells product!

**So don't just buy, *INTENSIFY!***  
... with Ultra-Bright MagJacks® from Arcadian Sales

And as always, every item in this catalog is part of our "**ZERO LEAD-TIME**" initiative. We are committed to having the parts you find in this catalog available at all times, either from **STOCK** or in the pipeline to satisfy all of your requirements from prototype to production.

Remember, we are always here to help you with Bel. My team and I look forward to working with you.

Sincerely,

A handwritten signature in black ink that reads "Michael A. Crudele". The signature is written in a cursive, slightly slanted style.

Michael Crudele  
President, Arcadian Sales

**CALL: 1-888-925-5967 CLICK: [www.arcadiansales.com](http://www.arcadiansales.com)**

For today's networked devices, the RJ45 connector is your product's "link" to the outside world.

**Does your RJ45 look as good as your product performs?**

**Don't just buy,**

**INTENSIFY !**



STANDARD



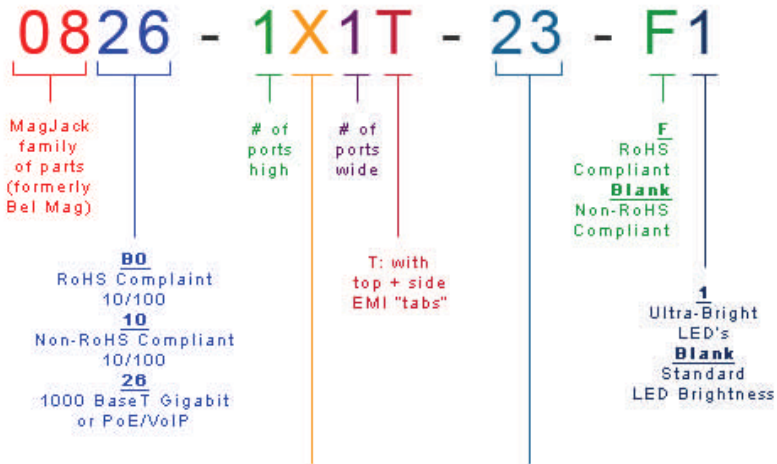
ULTRA-BRIGHT

The all-new **Ultra-Bright MagJacks®** have LED's **5 X brighter** than standard LED's and are fully RoHS compliant.

So, whether you're looking to pack a punch with brighter **GREEN**, **YELLOW** and **ORANGE**, or looking to make a lasting impression with custom colors such as **RED** and **BLUE**, you can't go wrong.

Please see pages 4 & 5 for more information on Ultra-Bright and custom color options.

## MagJack® Part # Breakdown



### LED 1

**A** Yellow  
**B** Green/Orange  
**C** Green/Yellow  
**D** Green  
**E** Green  
**G** Green  
**K** Green  
**L** Green/Yellow  
**X** Yellow  
**Y** Yellow  
**3** Blue/Yellow  
**4** Red/Green  
**5** Blue

### LED 2

Green  
 Green/Orange  
 Green/Yellow  
 Yellow  
 Green/Orange  
 Green  
 Green/Yellow  
 Green  
 Green/Orange  
 Yellow  
 Blue/Yellow  
 Red/Green  
 Blue

### Internal Winding Code

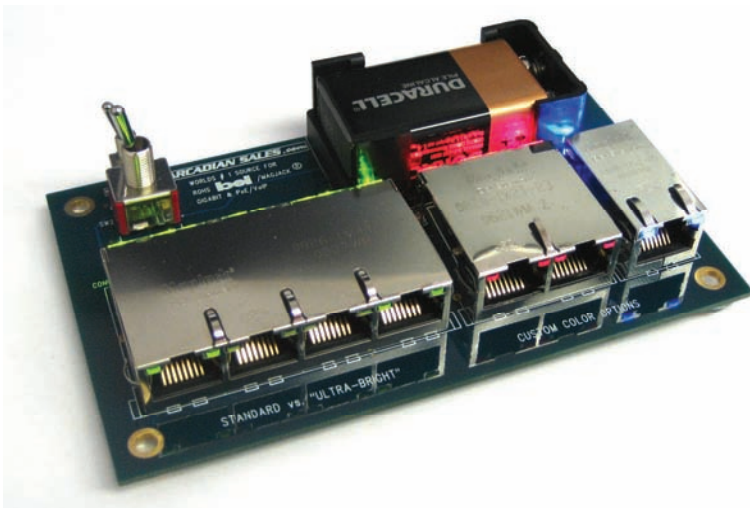
- 03** = 10/100, 1:1 turns ratio, commercial temp, 0 - 70 C, Non Auto-MDIX with common mode choke
- 06** = 10/100, 1:1 turns ratio, commercial temp, 0 - 70 C, Auto-MDIX compatible  
 \* World's most popular 10/100 MagJack
- 36** = 10/100, 1:1 turns ratio, extended temp, -40 - +85 C, Auto-MDIX compatible
- 23** = Gigabit, 1:1 turns ratio, commercial temp, 0 - 70 C with common mode chokes, 12 cores  
 \* World's most popular Gigabit MagJack
- 43** = Gigabit, 1:1 turns ratio, commercial temp 0 - 70 C, 8 cores
- 57** = 1:1 turns ratio, optimized for 10/100, plus PoE / VoIP
- 80** = 1:1 turns ratio, optimized for 1000 BaseT/Gigabit, plus PoE / VoIP

For more MagJack® information,  
 including an interactive part # builder,  
 datasheets, and much more, visit:  
[MyMagJack.com](http://MyMagJack.com)

**CALL: 1-888-925-5967 CLICK: [www.arcadiansales.com](http://www.arcadiansales.com)**

**LED Color Combination Chart**

<b>CODE</b>	<b>LEFT LED</b>		<b>RIGHT LED</b>		<b>NOTES</b>
<b>A</b>	Green		Yellow		Also available in ultra-bright
<b>B</b>	Green	Orange	Green	Orange	Also available in ultra-bright
<b>C</b>	Green	Yellow	Green	Yellow	Also available in ultra-bright
<b>D</b>	Yellow		Green		Also available in ultra-bright
<b>G</b>	Green		Green		Also available in ultra-bright
<b>K</b>	Green	Yellow	Green		Also available in ultra-bright
<b>L</b>	Green		Green	Yellow	Also available in ultra-bright
<b>X</b>	Green	Orange	Yellow		Also available in ultra-bright
<b>5</b>	Blue		Blue		New from ARCADIAN!
<b>3</b>	Blue	Yellow	Blue	Yellow	New from ARCADIAN!
<b>4</b>	Green	Red	Green	Red	New from ARCADIAN!



To see the benefits of Ultra-Bright and custom color MagJacks® firsthand, call Arcadian Sales toll-free at:

**1-888-925-5967**

and set up an appointment with your local representative.

# ARCADIAN SALES.com

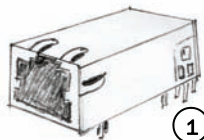
## MagJack®

### PoE (Power Over Ethernet) / VoIP (Voice Over IP)

PART #	PRICE BREAKS						
CONFIG	PORTS	TAB	SPEED	HEIGHT (IN)	# CORES	LED'S	PHOTO #
0826-1*1T-57-F	Qty 1: \$5.58, Qty 10: \$4.49, Qty 40: \$3.68, Qty 1000: \$3.35						
STANDARD	1	UP	100BT/PoE	0.536	6	ANY	1
0826-1*1T-57-F1	Qty 1: \$5.58, Qty 10: \$4.49, Qty 40: \$3.68, Qty 1000: \$3.35						
STANDARD	1	UP	100BT/PoE	0.536	6	ANY	1
0813-1X1T-57-F	Qty 1: \$5.16, Qty 10: \$3.82, Qty 40: \$3.44, Qty 1000: \$2.86						
STANDARD	1	DOWN	100BT/PoE	0.536	6	NONE	1
0826-1*1T-80-F	Qty 1: \$11.60, Qty 10: \$9.28, Qty 40: \$6.63, Qty 1000: \$5.95						
STANDARD	1	UP	GigE/PoE	0.536	8	ANY	1
0826-1*1T-80-F1	Qty 1: \$11.60, Qty 10: \$9.28, Qty 40: \$6.63, Qty 1000: \$5.95						
STANDARD	1	UP	GigE/PoE	0.536	8	ANY	1

### 1000 Base T - "Gigabit" (Single Port)

PART #	PRICE BREAKS						
CONFIG	PORTS	TAB	SPEED	HEIGHT (IN)	# CORES	LED'S	PHOTO #
0826-1*1T-23-F	Qty 1: \$6.75, Qty 10: \$5.00, Qty 40: \$4.50, Qty 1000: \$3.75						
STANDARD	1	UP	GIGABIT	0.536	12	ANY	1
0826-1*1T-23-F1	Qty 1: \$6.75, Qty 10: \$5.00, Qty 40: \$4.50, Qty 1000: \$3.75						
STANDARD	1	UP	GIGABIT	0.536	12	ANY	1
0816-1X1T-23-F	Qty 1: \$6.42, Qty 10: \$4.76, Qty 40: \$4.28, Qty 1000: \$3.57						
STANDARD	1	UP	GIGABIT	0.536	12	NONE	1
L826-1X1T-23-F	Qty 1: \$7.17, Qty 10: \$5.31, Qty 40: \$4.78, Qty 1000: \$3.98						
LOW-PRO	1	UP	GIGABIT	0.489	12	X ONLY	1

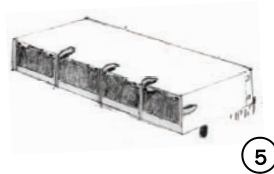


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**MagJack®**

**1000 Base T - "Gigabit" (Multi-Port)**

PART #	PRICE BREAKS						
CONFIG	PORTS	TAB	SPEED	HEIGHT (IN)	# CORES	LED'S	PHOTO #
0826-1*2T-23-F	Qty 1: 13.55, Qty 12: \$10.90, Qty 49: \$8.94, Qty 1000: \$8.13						
1 HIGH X 2 WIDE	2	UP	GIGABIT	0.536	12	ANY	2
0826-1*2T-23-F1	Qty 1: 13.55, Qty 12: \$10.90, Qty 49: \$8.94, Qty 1000: \$8.13						
1 HIGH X 2 WIDE	2	UP	GIGABIT	0.536	12	ANY	2
0826-1*4T-23-F	Qty 1: \$26.82, Qty 6: \$19.87, Qty 24: \$17.88, Qty 1000: \$14.90						
1 HIGH X 4 WIDE	4	UP	GIGABIT	0.536	12	ANY	5
0826-1*4T-23-F1	Qty 1: \$26.82, Qty 6: \$19.87, Qty 24: \$17.88, Qty 1000: \$14.90						
1 HIGH X 4 WIDE	4	UP	GIGABIT	0.536	12	ANY	5



**Need Technical Help?**

Don't hesitate to call  
**ARCADIAN SALES**

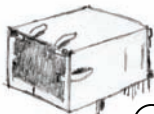
at 1-888-925-5967  
 or use our live chat  
 at [www.arcadiansales.com](http://www.arcadiansales.com)

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## MagJack®

### 10/100 Base T - "Fast Ethernet"

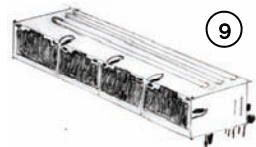
PART #	PRICE BREAKS						
	CONFIG	PORTS	TAB	SPEED	HEIGHT (IN)	# CORES	LED'S
08B0-1*1T-06-F	Qty 1: \$4.50, Qty 15: \$3.33, Qty 60: \$2.98, Qty 1000: \$2.48						
STANDARD	1	UP	10/100 AUTOMDIX	0.531	4	ANY	6
08B0-1*1T-06-F1	Qty 1: \$4.50, Qty 15: \$3.33, Qty 60: \$2.98, Qty 1000: \$2.48						
STANDARD	1	UP	10/100 AUTOMDIX	0.531	4	ANY	6
08B0-1*1T-36-F	Qty 1: \$4.65, Qty 15: \$3.44, Qty 60: \$3.10, Qty 1000: \$2.58						
STANDARD	1	UP	10/100 EXT TEMP	0.531	4	ANY	6
08B0-1*1T-36-F1	Qty 1: \$4.65, Qty 15: \$3.44, Qty 60: \$3.10, Qty 1000: \$2.58						
STANDARD	1	UP	10/100 EXT TEMP	0.531	4	ANY	6
08B0-1*1T-03-F	Qty 1: \$4.68, Qty 15: \$3.47, Qty 60: \$3.12, Qty 1000: \$2.60						
STANDARD	1	UP	10/100	0.531	5	ANY	6
08B0-1*1T-03-F1	Qty 1: \$4.68, Qty 15: \$3.47, Qty 60: \$3.12, Qty 1000: \$2.60						
STANDARD	1	UP	10/100	0.531	5	ANY	6
08C2-1X1T-36	Qty 1: \$4.89, Qty 10: \$3.62, Qty 40: \$3.26, Qty 1000: \$2.72						
1 RJ45 OVER 2 USB	1+2 USB	UP	10/100 EXT TEMP	1.170	4	X ONLY	8
0810-1*4T-36-F	Qty 1: \$15.54, Qty 8: \$11.51, Qty 30: \$10.36, Qty 1000: \$8.63						
STANDARD	4	UP	10/100 EXT TEMP	0.531	4	ANY	9
0810-1*4T-36-F1	Qty 1: \$15.54, Qty 8: \$11.51, Qty 30: \$10.36, Qty 1000: \$8.63						
STANDARD	4	UP	10/100 EXT TEMP	0.531	4	ANY	9



6



8



9

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**Discrete Magnetics**  
**1000 Base T - "Gigabit"**

PART #	PRICE BREAKS					
CONFIG	PORTS	TAB	SPEED	HEIGHT (IN)	# CORES	LED'S
S558-5999-P3-F	Qty 1: \$4.56, Qty 75: \$3.38, Qty 300: \$3.04, Qty 1000: \$2.53					
48 PIN SOIC	1	NA	GIGABIT	0.212	NA	NA
S558-5999-Q3-F	Qty 1: \$9.30, Qty 50: \$6.89, Qty 250: \$6.20, Qty 1000: \$5.17					
24 PIN SOIC	2	NA	GIGABIT	0.285	NA	NA

**10/100 Base T - "Fast Ethernet"**

PART #	PRICE BREAKS					
CONFIG	PORTS	TAB	SPEED	HEIGHT (IN)	# CORES	LED'S
S558-5999-T7-F	Qty 1: \$1.86, Qty 188: \$1.38, Qty 750: \$1.24, Qty 1500: \$1.03					
16 PIN SOIC	1	NA	10/100	0.225	NA	NA
S558-5999-U7-F	Qty 1: \$2.04, Qty 188: \$1.51, Qty 750: \$1.36, Qty 1500: \$1.13					
16 PIN SOIC	1	NA	10/100	0.225	NA	NA
S558-5999-T5-F	Qty 1: \$2.04, Qty 188: \$1.51, Qty 750: \$1.36, Qty 1500: \$1.13					
16 PIN SOIC	1	NA	10/100 EXT TEMP	0.225	NA	NA
S558-5999-W2-F	Qty 1: \$2.20, Qty 188: \$1.64, Qty 750: \$1.48, Qty 1500: \$1.23					
16 PIN SOIC	1	NA	10/100 AUTOMDIX	0.225	NA	NA
S558-5999-46-F	Qty 1: \$2.37, Qty 75: \$1.76, Qty 300: \$1.58, Qty 1000: \$1.32					
L=1" W=.395"	1	NA	10/100	0.215	NA	NA
S558-5999-Q9-F	Qty 1: \$4.92, Qty 50: \$3.64, Qty 200: \$3.28, Qty 1000: \$2.73					
40 PIN SOIC	4	NA	10/10 AUTOMDIX	0.212	NA	NA

## RoHS Cross Reference

For a full searchable list, go to [www.arcadiansales.com/rohsxref](http://www.arcadiansales.com/rohsxref)

<u>STANDARD #</u>	<u>ROHS #</u>	<u>STANDARD #</u>	<u>ROHS #</u>
0810-1G1T-06	08B0-1G1T-06-F	S558-5999-P3	S558-5999-P3-F
0810-1X1T-03	08B0-1X1T-03-F	S558-5999-Q3	S558-5999-Q3-F
0810-1X1T-06	08B0-1X1T-06-F	S558-5999-Q9	S558-5999-Q9-F
0810-1X1T-36	08B0-1X1T-36-F	S558-5999-T5	S558-5999-T5-F
0810-1X4T-36	08B0-1X4T-36-F	S558-5999-T7	S558-5999-T7-F
0810-2H4R-28	0810-2H4R-28-F <sup>1</sup>	S558-5999-U7	S558-5999-U7-F
0811-1X4T-06	0811-1X4T-06-F	S558-5999-W2	S558-5999-W2-F
0812-1X1T-03	08C2-1X1T-03	S560-6600-DJ	S560-6600-DJ-F
0812-1X1T-36	08C2-1X1T-36	S560-6600-JF	S560-6600-JF-F
0813-1X1T-23	0813-1X1T-23-F	S811-1X1T-06	S811-1X1T-06-F
0816-1X1T-23	0816-1X1T-23-F	SI-10021	SI-60002-F
0826-1A1T-23	0826-1A1T-23-F	SI-10022	SI-60128-F
0826-1C1T-23	0826-1C1T-23-F	SI-10128	SI-60136-F
0826-1G1T-23	0826-1G1T-23-F	SI-16001	SI-16001-F
0826-1G4T-23	0826-1G4T-23-F	SI-16002	SI-16002-F
0826-1K1T-23	0826-1K1T-23-F	SI-20110	SI-60022-F
0826-1L1T-23	0826-1L1T-23-F	SI-20140	SI-60063-F
0826-1X1T-23	0826-1X1T-23-F	SI-30142	0845-2G1T-45
0826-1X2T-23	0826-1X2T-23-F	SI-40006	SI-60005-F
0826-1X4T-23	0826-1X4T-23-F	SI-40131	SI-60082-F
0843-2B1T-33	0843-2B1T-33-F	SI-40138	SI-60062-F
0843-2C1T-33	0843-2C1T-33-F	SI-40139	SI-60001-F
C1Q	C1Q <sup>1</sup>	SI-40141	SI-60024-F
C2Q	C2Q <sup>1</sup>	SI-40143	SI-60065-F
C893-1AX1-E1	C893-1AX1-E1 <sup>1</sup>	SI-46001	SI-46001-F
L826-1X1T-23	L826-1X1T-23-F	SI-50080	SI-50080-F
L829-1J1T-43	L829-1J1T-43 <sup>1</sup>	SI-50170	SI-50170-F
MQ	MQ <sup>1</sup>	SMP	SMP <sup>1</sup>
RJS	RJS-R	SSQ	SSQ <sup>1</sup>
S558-5999-46	S558-5999-46-F	SST	SST <sup>1</sup>

<sup>1</sup> = No Change. Original part is fully RoHS compliant.

## Glossary of Terms

**ARCADIAN** - Adjective: Peaceful, simple. (This is the experience we want our customers to have when dealing with us!)

**Category 5, 5E, 6** - Network cabling that consists of four twisted pairs of copper wire terminated by RJ45 Connectors typically used for 10 Base T, 10/100 and Gigabit Ethernet

**DC/DC Converter** - A module which converts a source of "direct current" from one voltage to another

**Discrete Magnetics** - Ethernet magnetics in an over molded packaged, used in conjunction with an RJ45 connector for impedance matching with a PHY physical layer transceiver chip.

**Ethernet** - IEEE's term for the physical layer in a Local Area Network. The most common Ethernet speeds are Gigabit (1000 Base T, 10/100 Fast Ethernet, and 10 Base T)

**Fuse** - A circuit protection device used to protect from excessive electrical current. Its conductor melts & breaks the current flow when too much electricity flows

**Intermediate Bus Converter** - A module which takes an existing telecom power source and converts it to a voltage that can be used by "Point of Load" DC/DC converters. Typically 48V to 12V.

**Lead-Time** - The amount of time it takes to get delivery of an order After Receipt of Order (ARO)

**LED** - Light Emitting Diode

**MagJack** - RJ45 Connector with integrated Ethernet magnetics, resistors, capacitor, and LED's from Bel (Bel Fuse Bel Stewart Connector)

**Passive Connector** - RJ45 or other form of connector that provides an interface for a signal but does not manipulate it

**PoE** - Power over Ethernet, any system to transmit electrical power along with data to remote devices over standard twisted pair Ethernet cable

**Point Of Load Converter** - A module which converts a source of "direct current" from one voltage to another at the "Point of Load"

**RAPIDs** - Readily Available Prototypes Introductory Designs and Samples

**RJ45 Connector** - A serial connector with 8 wires used for ethernet, mates with Cat5, Cat5E, and Cat6 cable and plugs

**RoHS** - Restriction of Hazardous Substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, and polybrominated diphenyl ethers)

**SMT** - Surface Mount Technology

**THT** - Through Hole Technology

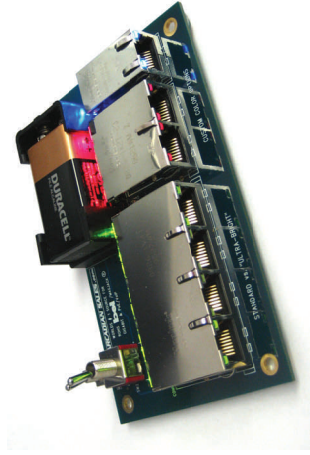
**USB Connector** - Universal Serial Bus, a small form factor connector that supports data transfer rates of up to 12Mbps and can connect up to 127 peripheral devices

**VoIP** - Voice over Internet Protocol, using broadband connections via the internet for telephony

**WEEE** - Waste Electrical and Electronics Equipment

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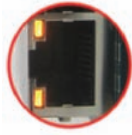


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