

Socket

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1. Sockets

The sockets listed in section "2. List of Test Sockets", are available as test sockets. For details, on functions, performance, price and delivery, contact the respective socket manufacturers directly. Fujitsu also has its own sockets under development. If a socket not listed in the charts is required, contact the sales department indicated on the endpaper of this data book.

Contact information

Company	Address of headquarters	Telephone	Name
Yamaichi Electronics Co., Ltd.	3-28-7, Nakamagome, Ota-ku, Tokyo, 143-8515	+81-3-3778-6104	Mr. Motoki
UMD Technology KK	2-2-15, Shinyokohama, Kohoku-ku, Yokohama, 220-0033	+81-45-473-9882	Mr. Shimoto
Unitechno Inc.	Maekawa Shibaura Bldg2, 2-13-9, Shibaura, Minato-ku, Tokyo, 108-0023	+81-3-5476-5661	Mr. Yamazaki
Takachiho Electric Co., Ltd. *1	2-7-15, Shiba, Minato-ku, Tokyo, 105-8515	+81-3-3454-3523	Mr. Toyota
Hitachi High-Technologies Corporation *2	1-24-15 Nishi Shimbashi Minato-ku, Tokyo, 105-8717	+81-3-3504-7710	Mr. Takagi
Enplas Semiconductor Peripheral Corporation	Kojima MN Bldg 9th Floor, 2-15-1, Dotechou, Saitama-shi, Saitama, 330-0801	+81-48-473-9882	Mr. Murata

*1: Takachiho Electric Co., Ltd. is an agent for Sumitomo 3M Limited.

*2: Hitachi High-Technologies Corporation is a representative for Sensata Technologies Japan Limited.

2. List of Test Sockets

Plastic SOP (1 / 2)

Package		Socket	
Number of pins	Package code	Model number	Manufacturer
8	FPT-8P-M01	IC51-902-2.KS-8571	Yamaichi Electronics Co., Ltd.
		FP-16(20M)-1.27-06A	Enplas Semiconductor Peripheral Corporation
	FPT-8P-M02	IC51-0082-763	Yamaichi Electronics Co., Ltd.
		FP-8(16H)-1.27-06	Enplas Semiconductor Peripheral Corporation
14	FPT-14P-M04	IC51-902-2.KS-8571	Yamaichi Electronics Co., Ltd.
		FP-14(20)-1.27-06	Enplas Semiconductor Peripheral Corporation
16	FPT-16P-M03	IC51-347.KS-5755	Yamaichi Electronics Co., Ltd.
		FP-16(28Z)-1.27-10	Enplas Semiconductor Peripheral Corporation
	FPT-16P-M05	IC51-0162-911	Yamaichi Electronics Co., Ltd.
		FP-16-0.65-01A	Enplas Semiconductor Peripheral Corporation
	FPT-16P-M06	IC51-902-2.KS-8571	Yamaichi Electronics Co., Ltd.
		FP-16(20)-1.27-06	Enplas Semiconductor Peripheral Corporation
	FPT-16P-M07	676-3160111	UMD Technology KK
	20	FPT-20P-M01	IC51-793.KS-7536
FP-20-1.27-06			Enplas Semiconductor Peripheral Corporation
IC162-0202-006			Yamaichi Electronics Co., Ltd.
FPT-20P-M03		IC51-0202-912	Yamaichi Electronics Co., Ltd.
		FP-20-0.65-01A	Enplas Semiconductor Peripheral Corporation
FPT-20P-M04		IC51-0202-912	Yamaichi Electronics Co., Ltd.
		FP-20-0.65-01A	Enplas Semiconductor Peripheral Corporation
24		FPT-24P-M01	IC51-0242-793
	FPT-24P-M02	IC51-371.KS-7842	Yamaichi Electronics Co., Ltd.
		FP-24(28S)-1.27-08	Enplas Semiconductor Peripheral Corporation
	FPT-24P-M03	IC51-0242-913	Yamaichi Electronics Co., Ltd.
		FP-24-0.65-01A	Enplas Semiconductor Peripheral Corporation
	28	FPT-28P-M01	IC51-0302-904
FP-28-1.27-10			Enplas Semiconductor Peripheral Corporation
IC51-371.KS-7844			Yamaichi Electronics Co., Ltd.
FPT-28P-M17		IC51-474.KS-9455	Yamaichi Electronics Co., Ltd.
		FP-28-1.27-22	Enplas Semiconductor Peripheral Corporation

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Plastic SOP (2 / 2)

Package		Socket	
Number of pins	Package code	Model number	Manufacturer
30	FPT-30P-M02	IC51-0302-914	Yamaichi Electronics Co., Ltd.
		FP-30-0.65-01A	Enplas Semiconductor Peripheral Corporation
32	FPT-32P-M24	IC51-0322-1207	Yamaichi Electronics Co., Ltd.
		OTS-32-0.5-02	Enplas Semiconductor Peripheral Corporation
		648-0322211-A41	UMD Technology KK
	FPT-32P-M25	IC51-0322-1207	Yamaichi Electronics Co., Ltd.
		OTS-32-0.5-02	Enplas Semiconductor Peripheral Corporation
		648-0322211-A41	UMD Technology KK
34	FPT-34P-M03	FP-34-0.65-01	Enplas Semiconductor Peripheral Corporation
40	FPT-40P-M06	IC51-0402-1174	Yamaichi Electronics Co., Ltd.
		648-0402211-A41	UMD Technology KK
	FPT-40P-M07	IC51-0402-1174	Yamaichi Electronics Co., Ltd.
		648-0402211-A41	UMD Technology KK
44	FPT-44P-M07	IC235-0402-005	Yamaichi Electronics Co., Ltd.
		FP-40(44)-0.8-03	Enplas Semiconductor Peripheral Corporation
		674C1444011FA13	UMD Technology KK
	FPT-44P-M16	IC51-0442-1315	Yamaichi Electronics Co., Ltd.
		SP4-044127-024	Unitechno Inc.
48	FPT-48P-M19	648-0482211-A41	UMD Technology KK
		IC279-0482-007P	Yamaichi Electronics Co., Ltd.
		IC189-0482-077P	Yamaichi Electronics Co., Ltd.
	FPT-48P-M20	648-0482211-A41	UMD Technology KK
		IC189-0482-077P	Yamaichi Electronics Co., Ltd.
	FPT-48P-M25	IC162-0482-059P	Yamaichi Electronics Co., Ltd.
56	FPT-56P-M01	IC354-0562-010P	Yamaichi Electronics Co., Ltd.
	FPT-56P-M04	TS4-056040-019	Unitechno Inc.

Plastic CSOP

Package		Socket	
Number of pins	Package code	Model number	Manufacturer
48	LCC-48P-M03	IC273-0482-017P	Yamaichi Electronics Co., Ltd.

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Plastic QFP (1 / 5)

Package		Socket	
Number of pins	Package code	Model number	Manufacturer
32	FPT-32P-M21	FPQ-32-0.8-01	Enplas Semiconductor Peripheral Corporation
44	FPT-44P-M11	IC51-0444-228	Yamaichi Electronics Co., Ltd.
		IC51-0444-843	Yamaichi Electronics Co., Ltd.
		FPQ-44-0.8-14A	Enplas Semiconductor Peripheral Corporation
48	FPT-48P-M05	IC51-0484-806	Yamaichi Electronics Co., Ltd.
		IC51-806.AC-30563	Yamaichi Electronics Co., Ltd.
		FPQ-48-0.5-06	Enplas Semiconductor Peripheral Corporation
	FPT-48P-M13	FPQ-48-0.8-01	Enplas Semiconductor Peripheral Corporation
	FPT-48P-M15	IC51-728.KS-10975	Yamaichi Electronics Co., Ltd.
		IC51-0484-1472	Yamaichi Electronics Co., Ltd.
		FPQ-48-0.8-05	Enplas Semiconductor Peripheral Corporation
	FPT-48P-M16	IC51-728.KS-10975	Yamaichi Electronics Co., Ltd.
		IC51-0484-1472	Yamaichi Electronics Co., Ltd.
		IC51-0484-630	Yamaichi Electronics Co., Ltd.
		FPQ-48-0.8-05	Enplas Semiconductor Peripheral Corporation
	FPT-48P-M26	IC51-806.AC-30563	Yamaichi Electronics Co., Ltd.
64	FPT-64P-M03	QP1-064050-108	Unitechno Inc.
		QP4-064050-002-A	Unitechno Inc.
		IC51-0644-807	Yamaichi Electronics Co., Ltd.
		IC51-807.AC-14146	Yamaichi Electronics Co., Ltd.
		FPQ-64-0.5-01	Enplas Semiconductor Peripheral Corporation
	FPT-64P-M04	QP4-064050-002-A	Unitechno Inc.
		FPQ-64-0.5-01	Enplas Semiconductor Peripheral Corporation
		IC51-0644-807-3	Yamaichi Electronics Co., Ltd.
	FPT-64P-M06	680H0642111	UMD Technology KK
		IC51-0644-1613	Yamaichi Electronics Co., Ltd.
		QP1-064100-162	Unitechno Inc.
	FPT-64P-M07	IC51-0644-1613	Yamaichi Electronics Co., Ltd.
		QP1-064100-162	Unitechno Inc.
		FPQ-64-1.0-08A	Enplas Semiconductor Peripheral Corporation
	FPT-64P-M09	IC51-0644-1602	Yamaichi Electronics Co., Ltd.
		FPQ-64-0.65-02	Enplas Semiconductor Peripheral Corporation

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Plastic QFP (2 / 5)

Package		Socket	
Number of pins	Package code	Model number	Manufacturer
64	FPT-64P-M10	680H0642111	UMD Technology KK
		IC51-0644-1613	Yamaichi Electronics Co., Ltd.
		QP1-064100-162	Unitechno Inc.
80	FPT-80P-M05	IC234-0804-026P	Yamaichi Electronics Co., Ltd.
		QP1-080050-147	Unitechno Inc.
		IC51-0804-808	Yamaichi Electronics Co., Ltd.
		IC51-0804-808-14	Yamaichi Electronics Co., Ltd.
		OTQ-80-0.5-02	Enplas Semiconductor Peripheral Corporation
		FPQ-80-0.5-04	Enplas Semiconductor Peripheral Corporation
		IC201-0804-014	Yamaichi Electronics Co., Ltd.
	FPT-80P-M06	IC201-0804-005	Yamaichi Electronics Co., Ltd.
		QP1-080080-007	Unitechno Inc.
		IC51-0804-819-4	Yamaichi Electronics Co., Ltd.
		FPQ-80-0.8-13A	Enplas Semiconductor Peripheral Corporation
	FPT-80P-M07	QP1-080080-007	Unitechno Inc.
		IC51-0804-819-4	Yamaichi Electronics Co., Ltd.
		FPQ-80-0.8-13A	Enplas Semiconductor Peripheral Corporation
	FPT-80P-M11	IC218-0804-007P	Yamaichi Electronics Co., Ltd.
		FPQ-80-0.65-09A	Enplas Semiconductor Peripheral Corporation
	FPT-80P-M15	QP1-080050-147	Unitechno Inc.
		IC51-0804-808-21	Yamaichi Electronics Co., Ltd.
		IC51-0804-808-10	Yamaichi Electronics Co., Ltd.
		IC234-0804-026P	Yamaichi Electronics Co., Ltd.
	100	FPT-100P-M05	IC234-1004-023P
QP1-100050-146			Unitechno Inc.
IC51-1004-809-23			Yamaichi Electronics Co., Ltd.
IC51-1004-809			Yamaichi Electronics Co., Ltd.
FPQ-100-0.5-10A			Enplas Semiconductor Peripheral Corporation
IC201-1004-008			Yamaichi Electronics Co., Ltd.

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Plastic QFP (3 / 5)

Package		Socket	
Number of pins	Package code	Model number	Manufacturer
100	FPT-100P-M06	IC234-1004-068P	Yamaichi Electronics Co., Ltd.
		QP1-100065-004	Unitechno Inc.
		IC51-1001-1980	Yamaichi Electronics Co., Ltd.
		IC51-1004-814-4	Yamaichi Electronics Co., Ltd.
		FPQ-100-0.65-11A	Enplas Semiconductor Peripheral Corporation
	FPT-100P-M07	IC234-1004-068P	Yamaichi Electronics Co., Ltd.
		QP1-100065-004	Unitechno Inc.
		IC51-1004-814-4	Yamaichi Electronics Co., Ltd.
		IC51-1001-1980	Yamaichi Electronics Co., Ltd.
		FPQ-100-0.65-11A	Enplas Semiconductor Peripheral Corporation
	FPT-100P-M09	QP1-100050-146	Unitechno Inc.
		IC51-1004-809	Yamaichi Electronics Co., Ltd.
		IC51-809.AC-14270	Yamaichi Electronics Co., Ltd.
		FPQ-100-0.5-10A	Enplas Semiconductor Peripheral Corporation
		IC234-1004-023P	Yamaichi Electronics Co., Ltd.
	FPT-100P-M18	IC234-045P.AC-10654	Yamaichi Electronics Co., Ltd.
		IC51-1004-1919-10	Yamaichi Electronics Co., Ltd.
	FPT-100P-M21	IC234-1004-023P	Yamaichi Electronics Co., Ltd.
		QP1-100050-146	Unitechno Inc.
		IC51-1004-809	Yamaichi Electronics Co., Ltd.
IC51-809.AC-14270		Yamaichi Electronics Co., Ltd.	
FPQ-100-0.5-10A		Enplas Semiconductor Peripheral Corporation	
120	FPT-120P-M03	IC234-1204-065P	Yamaichi Electronics Co., Ltd.
		QP1-120080-177	Unitechno Inc.
		IC51-844.KS-7692	Yamaichi Electronics Co., Ltd.
		FPQ-120-0.8-03A	Enplas Semiconductor Peripheral Corporation
	FPT-120P-M04	IC234-1204-065P	Yamaichi Electronics Co., Ltd.
		QP1-120080-177	Unitechno Inc.
		IC51-844.KS-7692	Yamaichi Electronics Co., Ltd.
		FPQ-120-0.8-03A	Enplas Semiconductor Peripheral Corporation
	FPT-120P-M05	IC234-1204-048P	Yamaichi Electronics Co., Ltd.
	FPT-120P-M13	QP1-144050-044-1	Unitechno Inc.

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Plastic QFP (4 / 5)

Package		Socket	
Number of pins	Package code	Model number	Manufacturer
120	FPT-120P-M17	IC234-1204-048P	Yamaichi Electronics Co., Ltd.
		IC273-008P.AC-03571	Unitechno Inc.
	FPT-120P-M21	IC234-1204-058P	Yamaichi Electronics Co., Ltd.
		QP1-120050-272	Unitechno Inc.
144	FPT-144P-M01	QP1-144065-178	Unitechno Inc.
		IC51-1444-1014	Yamaichi Electronics Co., Ltd.
		FPQ-144-0.65-02A	Enplas Semiconductor Peripheral Corporation
144	FPT-144P-M02	QP1-144065-178	Unitechno Inc.
		IC51-1444-1014	Yamaichi Electronics Co., Ltd.
		FPQ-144-0.65-02A	Enplas Semiconductor Peripheral Corporation
	FPT-144P-M03	QP1-1440050-044	Unitechno Inc.
	FPT-144P-M08	IC234-1444-016P	Yamaichi Electronics Co., Ltd.
		IC51-1444-1354-7	Yamaichi Electronics Co., Ltd.
		IC51-1444-1354-19	Yamaichi Electronics Co., Ltd.
		FPQ-144-0.5-03	Enplas Semiconductor Peripheral Corporation
	FPT-144P-M12	QP1-144050-054	Unitechno Inc.
		IC234-1444-053P	Yamaichi Electronics Co., Ltd.
		QFP11T144-002	Yamaichi Electronics Co., Ltd.
160	FPT-160P-M03	IC234-1604-064P	Yamaichi Electronics Co., Ltd.
		QP1-160065-165	Unitechno Inc.
		IC51-845.KS-7764	Yamaichi Electronics Co., Ltd.
		FPQ-160-0.65-06A	Enplas Semiconductor Peripheral Corporation
	FPT-160P-M04	IC234-1604-064P	Yamaichi Electronics Co., Ltd.
		QP1-160065-165	Unitechno Inc.
		IC51-845.KS-7764	Yamaichi Electronics Co., Ltd.
		FPQ-160-0.65-06A	Enplas Semiconductor Peripheral Corporation
	FPT-160P-M11	QP1-160065-010	Unitechno Inc.
	FPT-160P-M15	IC234-1604-064P	Yamaichi Electronics Co., Ltd.
		QP1-160065-165	Unitechno Inc.
		IC51-845.KS-7764	Yamaichi Electronics Co., Ltd.
		FPQ-160-0.65-06A	Enplas Semiconductor Peripheral Corporation

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Plastic QFP (5 / 5)

Package		Socket	
Number of pins	Package code	Model number	Manufacturer
176	FPT-176P-M02	IC234-1764-002P	Yamaichi Electronics Co., Ltd.
		IC51-1764-1505-10	Yamaichi Electronics Co., Ltd.
208	FPT-208P-M01	QP4-208050-024	Unitechno Inc.
		QP1-208050-014	Unitechno Inc.
		IC51-2084-2123	Yamaichi Electronics Co., Ltd.
		IC51-2084-1052-9	Yamaichi Electronics Co., Ltd.
		FPQ-208-0.5-06	Enplas Semiconductor Peripheral Corporation
208	FPT-208P-M04	QP4-208050-024	Unitechno Inc.
		IC51-2084-1052-11	Yamaichi Electronics Co., Ltd.
		QP1-208050-182	Unitechno Inc.
		IC51-2084-2123	Yamaichi Electronics Co., Ltd.
	FPT-208P-M06	IC201-001.AC-08598	Yamaichi Electronics Co., Ltd.
		IC51-2084-1052-36	Yamaichi Electronics Co., Ltd.
216	FPT-216P-M01	IC234-2164-050P	Yamaichi Electronics Co., Ltd.
240	FPT-240P-M03	EXC97072CQF240	Sensata Technologies Japan Limited (Hitachi High-Technologies Corporation)
		IC51-2404-1655-2	Yamaichi Electronics Co., Ltd.
	FPT-240P-M06	EXC97072CQF240	Sensata Technologies Japan Limited (Hitachi High-Technologies Corporation)
		IC51-2404-1655-2	Yamaichi Electronics Co., Ltd.
256	FPT-256P-M06	IC51-2564-1668-12	Yamaichi Electronics Co., Ltd.
	FPT-256P-M09	IC51-2564-1668-16	Yamaichi Electronics Co., Ltd.
	FPT-256P-M11	IC51-2564-1668-10	Yamaichi Electronics Co., Ltd.
		IC234-2564-020P	Yamaichi Electronics Co., Ltd.
	FPT-256P-M12	IC51-2564-1668-16	Yamaichi Electronics Co., Ltd.
296	FPT-296P-M04	QFP11T296-003	Yamaichi Electronics Co., Ltd.
304	FPT-304P-M02	IC201-004.AC-07901	Yamaichi Electronics Co., Ltd.
		IC51-3044-1471-11	Yamaichi Electronics Co., Ltd.

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SCSP

Package		Socket	
Number of pins	Package code	Model number	Manufacturer
48	WLP-48P-M02	TS1-FB0048-0029	Unitechno Inc.
	WLP-48P-M03	TS-FB0048-0011	Unitechno Inc.

BGA (1 / 3)

Package		Socket	
Number of pins	Package code	Model number	Manufacturer
256	BGA-256P-M01	CBG256-011	Sensata Technologies Japan Limited (Hitachi High-Technologies Corporation)
		NP276-37206.AC-02310	Yamaichi Electronics Co., Ltd.
		BGA-256(441)-1.27-08	Enplas Semiconductor Peripheral Corporation
	BGA-256P-M02	CBG256-011	Sensata Technologies Japan Limited (Hitachi High-Technologies Corporation)
		NP276-40009.AC-06524	Yamaichi Electronics Co., Ltd.
		BGA-256(441)-1.27-08	Enplas Semiconductor Peripheral Corporation
352	BGA-352P-M02	CBG352-014A	Sensata Technologies Japan Limited (Hitachi High-Technologies Corporation)
		NP276-59608.AC-04944	Yamaichi Electronics Co., Ltd.
		2352-9228-01-1401	Takachiho Electric Co., Ltd.
		BGA-352(841)-1.27-14	Enplas Semiconductor Peripheral Corporation
	BGA-352P-M03	CBG352-014A	Sensata Technologies Japan Limited (Hitachi High-Technologies Corporation)
		NP276-59608.AC-11092	Yamaichi Electronics Co., Ltd.
		2352-9228-01-1401	Takachiho Electric Co., Ltd.
		BGA-352(841)-1.27-14	Enplas Semiconductor Peripheral Corporation
	BGA-352P-M05	CBG352-014	Sensata Technologies Japan Limited (Hitachi High-Technologies Corporation)
		NP276-59608.AC-13306-1	Yamaichi Electronics Co., Ltd.
		2352K-9228-01-1401	Takachiho Electric Co., Ltd.
		BGA-352(841)-1.27-19	Enplas Semiconductor Peripheral Corporation

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BGA (2 / 3)

Package		Socket		
Number of pins	Package code	Model number	Manufacturer	
352	BGA-352P-M19	NP276-59608.AC-03146	Yamaichi Electronics Co., Ltd.	
		EXC97101-352	Sensata Technologies Japan Limited (Hitachi High-Technologies Corporation)	
	BGA-352P-M21	NP276-59608.AC-03146	Yamaichi Electronics Co., Ltd.	
		EXC97101-352	Sensata Technologies Japan Limited (Hitachi High-Technologies Corporation)	
	BGA-352P-M22	NP276-59608.AC-03146	Yamaichi Electronics Co., Ltd.	
		EXC97101-352	Sensata Technologies Japan Limited (Hitachi High-Technologies Corporation)	
	BGA-352P-M28	NP276-59608.AC-03146	Yamaichi Electronics Co., Ltd.	
		EXC97101-352	Sensata Technologies Japan Limited (Hitachi High-Technologies Corporation)	
	BGA-352P-M29	NP276-59608.AC-03146	Yamaichi Electronics Co., Ltd.	
		EXC97101-352	Sensata Technologies Japan Limited (Hitachi High-Technologies Corporation)	
	420	BGA-420P-M01	NP276-59608.AC-03119	Yamaichi Electronics Co., Ltd.
			2420-9228-01-1401	Takachiho Electric Co., Ltd.
BGA-420(841)-1.27-14			Enplas Semiconductor Peripheral Corporation	
BGA-420P-M02		NP276-59608.AC-03035	Yamaichi Electronics Co., Ltd.	
		2420-9228-01-1401	Takachiho Electric Co., Ltd.	
		BGA-484(841)-1.27-14	Enplas Semiconductor Peripheral Corporation	
BGA-420P-M03		EXC96144-420	Sensata Technologies Japan Limited (Hitachi High-Technologies Corporation)	
		NP276-59608.AC-09801	Yamaichi Electronics Co., Ltd.	
		2420K-9228-01-1401	Takachiho Electric Co., Ltd.	
BGA-420P-M16		NP276-59608.AC-09801	Yamaichi Electronics Co., Ltd.	
BGA-420P-M20	NP276-59608.AC-09801	Yamaichi Electronics Co., Ltd.		
436	BGA-436P-M01	NP352-436-68	Yamaichi Electronics Co., Ltd.	
	BGA-436P-M02	NP352-436-68	Yamaichi Electronics Co., Ltd.	
	BGA-436P-M03	NP352-436-68	Yamaichi Electronics Co., Ltd.	
480	BGA-480P-M04	NP352-48031	Yamaichi Electronics Co., Ltd.	
560	BGA-560P-M01	NP352-56009	Yamaichi Electronics Co., Ltd.	

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BGA (3 / 3)

Package		Socket	
Number of pins	Package code	Model number	Manufacturer
576	BGA-576P-M01	NP276-76820.AC-06128	Yamaichi Electronics Co., Ltd.
		BGA-576(1089)-1.27-17	Enplas Semiconductor Peripheral Corporation
	BGA-576P-M04	NP276-76820.AC-06128	Yamaichi Electronics Co., Ltd.
		BGA-576(1089)-1.27-17	Enplas Semiconductor Peripheral Corporation
	BGA-576P-M15	NP276-76820.AC-06128	Yamaichi Electronics Co., Ltd.
660	BGA-660P-M02	NP352-78832.AC-24854	Yamaichi Electronics Co., Ltd.
672	BGA-672P-M01	NP276-97623.AC-06017	Yamaichi Electronics Co., Ltd.
		2-0672-08407-000	Takachiho Electric Co., Ltd.
	BGA-672P-M06	NP276-97623.AC-06017	Yamaichi Electronics Co., Ltd.
720	BGA-720P-M01	NP352-72017	Yamaichi Electronics Co., Ltd.
		IC280-720-106	Yamaichi Electronics Co., Ltd.
792	BGA-792P-M02	NP352-152124.AC-20621	Yamaichi Electronics Co., Ltd.
896	BGA-896P-M01	NP352-152124.A100256-001	Yamaichi Electronics Co., Ltd.
	BGA-896P-M02	NP352-152124.A100256-001	Yamaichi Electronics Co., Ltd.
1089	BGA-1089C-M04	21089-9237-01-1401	Takachiho Electric Co., Ltd.
1225	BGA-1225C-M03	21225-9239-01-1401	Takachiho Electric Co., Ltd.
1681	BGA-1681C-M01	NP352-1681-89	Yamaichi Electronics Co., Ltd.

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FBGA (1 / 3)

Package		Socket	
Number of pins	Package code	Model number	Manufacturer
48	BGA-48P-M11	654048628010806	UMD Technology KK
		703-1048-01	UMD Technology KK
	BGA-48P-M12	654048631010806	UMD Technology KK
		703-1048-02	UMD Technology KK
		NP351-048-165	Yamaichi Electronics Co., Ltd.
	BGA-48P-M13	654048632010806	UMD Technology KK
		703-1048-03	UMD Technology KK
	BGA-48P-M16	NP351-048-165	Yamaichi Electronics Co., Ltd.
	BGA-48P-M18	777D2048-103	UMD Technology KK
	BGA-48P-M20	703-1048-01	UMD Technology KK
		654048628010806	UMD Technology KK
	BGA-48P-M21	654048631010806	UMD Technology KK
703-1048-02		UMD Technology KK	
NP351-048-165		Yamaichi Electronics Co., Ltd.	
56	BGA-56P-M01	CBG056-077AR	Sensata Technologies Japan Limited (Hitachi High-Technologies Corporation)
		NP351-056-176-1	Yamaichi Electronics Co., Ltd.
	BGA-56P-M02	CBG056-077AR	Sensata Technologies Japan Limited (Hitachi High-Technologies Corporation)
		NP351-056-176-1	Yamaichi Electronics Co., Ltd.
BGA-56P-M04	CBG056-077AM	Sensata Technologies Japan Limited (Hitachi High-Technologies Corporation)	
59	BGA-59P-M02	CBG056-077AM	Sensata Technologies Japan Limited (Hitachi High-Technologies Corporation)
60	BGA-60P-M05	NP351-060-356	Yamaichi Electronics Co., Ltd.
61	BGA-61P-M02	NP351-056-294	Yamaichi Electronics Co., Ltd.
		NP351-05673-1	Yamaichi Electronics Co., Ltd.
63	BGA-63P-M01	NP351-048-216	Yamaichi Electronics Co., Ltd.
		NP351-048-147-1	Yamaichi Electronics Co., Ltd.
63	BGA-63P-M02	NP351-048-270	Yamaichi Electronics Co., Ltd.
		NP351-048-146-1	Yamaichi Electronics Co., Ltd.
65	BGA-65P-M01	NP351-056-294	Yamaichi Electronics Co., Ltd.
		NP351-05673-1	Yamaichi Electronics Co., Ltd.

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FBGA (2 / 3)

Package		Socket	
Number of pins	Package code	Model number	Manufacturer
69	BGA-69P-M02	NP351-05672-1	Yamaichi Electronics Co., Ltd.
71	BGA-71P-M01	NP351-056-161-1	Yamaichi Electronics Co., Ltd.
		CBG056-077AK	Sensata Technologies Japan Limited (Hitachi High-Technologies Corporation)
	BGA-71P-M02	NP351-056-219	Yamaichi Electronics Co., Ltd.
		NP351-056-158-1	Yamaichi Electronics Co., Ltd.
73	BGA-73P-M01	NP351-056-228	Yamaichi Electronics Co., Ltd.
		NP351-056-104-1	Yamaichi Electronics Co., Ltd.
	BGA-73P-M03	NP351-056-104-1	Yamaichi Electronics Co., Ltd.
		NP351-056-228	Yamaichi Electronics Co., Ltd.
80	BGA-80P-M01	NP351-060-350	Yamaichi Electronics Co., Ltd.
	BGA-80P-M03	NP351-060-349	Yamaichi Electronics Co., Ltd.
	BGA-80P-M04	NP351-060-357	Yamaichi Electronics Co., Ltd.
84	BGA-84P-M01	NP351-084-182-1	Yamaichi Electronics Co., Ltd.
85	BGA-85P-M02	NP364-06026-2	Yamaichi Electronics Co., Ltd.
96	BGA-96P-M02	NP351-182.AC-29929	Yamaichi Electronics Co., Ltd.
		777E1084-101	UMD Technology KK
101	BGA-101P-M01	NP351-056-264	Yamaichi Electronics Co., Ltd.
		NP351-056-172-1	Yamaichi Electronics Co., Ltd.
103	BGA-103P-M01	IC280-252.AC-29276	Yamaichi Electronics Co., Ltd.
		NP364-09641	Yamaichi Electronics Co., Ltd.
107	BGA-107P-M01	NP364-07236.AC-30211	Yamaichi Electronics Co., Ltd.
		NP364-09644	Yamaichi Electronics Co., Ltd.
112	BGA-112P-M01	NP351-11230-1	Yamaichi Electronics Co., Ltd.
	BGA-112P-M04	NP351-11230-1	Yamaichi Electronics Co., Ltd.
115	BGA-115P-M03	CBG096-095B	Sensata Technologies Japan Limited (Hitachi High-Technologies Corporation)
		IC280-252.A100170-001	Yamaichi Electronics Co., Ltd.
120	BGA-120P-M01	NP351-12114-1.AC-13081	Yamaichi Electronics Co., Ltd.
144	BGA-144P-M01	NP291-16803-1.AC-06328	Yamaichi Electronics Co., Ltd.
	BGA-144P-M02	NP351-14429-1	Yamaichi Electronics Co., Ltd.
	BGA-144P-M06	NP351-14429-1	Yamaichi Electronics Co., Ltd.
	BGA-144P-M07	NP291-16803-1.AC-06328	Yamaichi Electronics Co., Ltd.

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FBGA (3 / 3)

Package		Socket	
Number of pins	Package code	Model number	Manufacturer
176	BGA-176P-M02	NP291-16803-1.AC-08229	Yamaichi Electronics Co., Ltd.
	BGA-176P-M04	NP291-16803-1.AC-08229	Yamaichi Electronics Co., Ltd.
192	BGA-192P-M03	NP351-19219-1	Yamaichi Electronics Co., Ltd.
224	BGA-224P-M04	NP351-22405-1	Yamaichi Electronics Co., Ltd.
	BGA-224P-M05	NP351-22405-1	Yamaichi Electronics Co., Ltd.
240	BGA-240P-M01	IC274-240269	Yamaichi Electronics Co., Ltd.
288	BGA-288P-M03	NP291-28807-1	Yamaichi Electronics Co., Ltd.
	BGA-288P-M04	NP291-28807-1	Yamaichi Electronics Co., Ltd.
	BGA-288P-M05	NP291-28807-1	Yamaichi Electronics Co., Ltd.
	BGA-288P-M08	NP291-28807-1	Yamaichi Electronics Co., Ltd.
352	BGA-352P-M08	NP351-35243-1	Yamaichi Electronics Co., Ltd.
	BGA-352P-M10	NP351-35243-1	Yamaichi Electronics Co., Ltd.

FLGA

Package		Socket	
Number of pins	Package code	Model number	Manufacturer
80	LGA-80P-M02	IC280-080-252	Yamaichi Electronics Co., Ltd.
	LGA-80P-M04	IC280-080-252	Yamaichi Electronics Co., Ltd.
144	LGA-144P-M02	IC280-144-249	Yamaichi Electronics Co., Ltd.
176	LGA-176P-M01	IC280-176-254	Yamaichi Electronics Co., Ltd.