

	Micro HDAS	HDAS	SMASH	127/HE801-HE804-HE807	SIAL	SIHD	R-VPX	MIL-HD2	HDB ³ /HSB ³	R-SATA	254/HE701-HE901
Standard / Approval											
MIL-DTL-55302	•	•	•	MIL-DTL-55302/140 to /155	•	•					
MIL-DTL-83513	•										
NFC-UTE				NFC/UTE 93-424/HE801-804-807							NFC/UTE 93-421/HE701 NFC/UTE 93-423/HE901
VITA							VITA 46, 47, 66, 67, 72, 78	VITA 91			
SATA	•	•	Not available for SMT versions	•	•	•	•	•	•	SATA 3.0	•
RoHS	•	•		•	•	•	•	•	•	•	•
Pitch / contact pattern											
Square grid (mm)	1,27 x 1,27			2,54	2,54	2,54	1,8 x 1,8	1,8 x 1,8			2,54 x 5,08
Staggered grid (mm)		1,905 0,9525 offset		1,27 offset	1,27 offset	1,27 offset			1,78 x 1,52	•	
Chevron grid (mm)			1,905 0,635 offset								
Arrangements											
Signal	•	•	•	•	•	•	•	•	•	•	•
Differential pair											
Power		•		•			•		•	•	
Coaxial		•		•	•		•		•	•	
Optical							•				
Contact number											
1 row										7	
2 rows	4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60			17, 29, 33, 41, 53, 65, 72, 84, 96 0+7, 0+8, 5+3, 5+6, 17+3, 17+6, 29+3, 29+6, 41+3, 41+6, 48+6, 53+3, 56+10, 60+3, 60+6, 72+3, 72+6, 84+3 80, 144							22
3 rows		11, 20, 29, 41, 50, 77, 119, 152							40, 60, 80, 120, 160		
4 rows		102, 202									
5 rows		253			18, 36, 58, 76, 98, 116, 156, 196, 214, 254, 312, 370, 392	102, 128, 158, 204, 230, 256					
6 rows			132, 150, 264, 300, 396, 450								
Hybrid		41+6		0+7, 0+8, 5+3, 5+6, 17+3, 17+6, 29+3, 29+6, 41+3, 41+6, 48+6, 53+3, 56+10, 60+3, 60+6, 72+3, 72+6, 84+3	18+3, 58+3, 98+3, 156+10, 196+5, 254+5						
Other							8 or 16 columns 3U or 6U				
Board configuration											
Motherboard to daughterboard	•	•	•	•	•	•	•	•	•	•	•
Mezzanine	•	•	•	•	•	•	•	•	•	•	•
Wire to board	•	•	Test only	•	•	•	•	•	•	•	•
Extender	•			•	•	•				•	
Contact termination											
PC tail	•	•	•	•	•	•			•	•	•
Press-fit / compliant		•		•			•	•		•	•
Surface mount	•	•		•	•	•				•	•
Crimping	•	•		•	•	•			•		
Solder cup		Test only	Test only	•							
Contact technology											
4-fingers clip	•										
6-fingers clip		•	•								
Stamped and formed				•							
Brush				•							
Micro-hyperboloid									•		
Lateral displacement compatible					•	•				•	
Technical features / accessories											
Guiding devices	•	•	•	•	•	•	•	•	•	•	•
Polarizing keys / keying	•	•	•	•	•	•	•	•	•	•	•
Locking system	•	•		•	•	•			•		•
Electrical performances											
Current rating (A) - Signal	3	4,5	3	3	3	3	1,5	1	2	1,5	3
Current rating (A) - Power		20		20							
Contact resistance (mΩ max)	8	10	10	12	25	12	10	10			10
Insulation resistance (MΩ min)	5000	5000	5000	5000	5000	5000			5000		5000
Dielectric Withstanding Voltage (Vrms min)	750 at sea level 480 at 70,000 feet	1000 at sea level 250 at 70,000 feet	1000 at sea level 250 at 70,000 feet	1000 at sea level 250 at 70,000 feet	750 at sea level 250 at 70,000 feet	750 at sea level 250 at 70,000 feet	500 at sea level	750 at sea level	750 at sea level 250 at 70,000 feet		1000 at sea level 250 at 70,000 feet
Max data rate (Gbps)		10					32	56	6,25	6,25	
Mechanical performances											
Electrical security / backoff (mm)	1,27	1,2	1,2	1	0,8	1					1,2
Mating / unmating cycles	500	500	500	500	500	500	500	250	100 000	20 000	
Sinusoidal vibrations	45g	15g	15g	10g	10g	10g	5g			10g	
Shocks	160g for 6ms	100g for 6ms	100g for 6ms	100g for 6ms	100g for 6ms	100g for 6ms	50g			50g	
Environmental performances											
Operating temperature (°C)	-65 / 150	-65 / 150	-65 / 150	-55 / 125	-55 / 125	-55 / 125	-55 / 105	-40 / 105	-65 / 125	-65 / 125	-55 / 125
Salt spray (hours)	96	144	144	96	144	96	48		48		96
Humidity (days)	10	10	10			56	10				
Material / plating											
Active area - Gold thickness (µm)	1,27 on female 0,75 on male	1,27 on female 1 on male	1,27 on female 1,27 on male	1 on female 1 on male			1,27 or 0,75	1,27			
Termination area	Gold	Gold, Tin-Lead or lead free	Gold, Tin-Lead or lead free	Gold, Tin-Lead or lead free	Tin-Lead or lead free	Tin-Lead or lead free	Tin-Lead or lead free	Tin Copper alloy	Gold, Tin-Lead or lead free	Gold or Tin-Lead	
Contact	Brass alloy	Brass alloy	Brass alloy	Brass alloy	Brass alloy	Brass alloy	Brass alloy	Copper alloy	Brass alloy		Brass alloy
Housing	LCP thermoplastic	LCP thermoplastic	LCP thermoplastic	DAP thermoset	DAP thermoset	DAP thermoset	LCP thermoplastic	LCP thermoplastic	LCP thermoplastic		
Fitting	Stainless steel	Brass alloy or stainless steel	Stainless steel	Brass alloy or stainless steel	Stainless steel	Stainless steel					