

T10/24-028r0 Revision 0

Date: February 23, 2024

To: T10 Committee

From Brad Besmer, Broadcom

Subject: T10/24-028r0 SAS-5: Add SFF-TA-1016 connectors

Overview

Add SFF-TA-1016 connectors.

Revision History

R0 - Original proposal

SAS-5 Changes

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

<< Text not replicated in proposal >>

SFF-9402, *Multi-Protocol Internal Cable Pinouts ~~Cables~~ for SAS and/or PCIe*

SFF-9639, *Multifunction 6X Unshielded Connector Pinouts*

SFF-TA-1000, *2.5" Form Factor Drive with High Density Connector*

SFF-TA-1016 Internal Unshielded High Speed Connector System

NOTE 1 - For more information on the current status of SFF documents or to obtain copies of these documents, contact the SFF Committee (see <http://www.snia.org/sff/specifications>).

ASTM Standard B 258-02, 2002, *Standard specification for standard nominal diameters and cross-sectional areas of AWG sizes of solid round wires used as electrical conductors*, ASTM International, West Conshohocken, PA, USA.

5.4.3 Connectors

5.4.3.1 Connectors overview

Table 4 summarizes the connectors defined in this standard.

Table 4 — Connectors (part 1 of 4)

Type of connector	Physical links	Reference	Attaches to		
			Type of connector	Physical links	Reference
SATA internal connectors used by SAS					
SATA signal cable receptacle	1	See SATA	SATA host plug	1	See SATA
SATA host plug	1	See SATA	SATA signal cable receptacle	1	See SATA
SATA device plug	1	See SATA	SAS Drive cable connector	1 or 2	5.4.3.3.1.2
			SAS Drive backplane connector	2	5.4.3.3.1.3
			SAS MultiLink Drive cable connector	4	5.4.3.3.1.6
			SAS MultiLink Drive backplane connector	4	5.4.3.3.1.7
			Multifunction 6X Unshielded receptacle connector	6 ^a	See SFF-8639
Micro SATA device plug	1	See SATA	Micro SAS receptacle	2	5.4.3.3.1.13
SAS internal connectors - SAS Drive connectors					
SAS Drive plug	2	5.4.3.3.1.1	SAS Drive cable connector	1 or 2	5.4.3.3.1.2
			SAS Drive backplane connector	2	5.4.3.3.1.3
			SAS MultiLink Drive cable connector	4	5.4.3.3.1.6
			SAS MultiLink Drive backplane connector	4	5.4.3.3.1.7
			Multifunction 6X Unshielded receptacle connector	6 ^a	See SFF-8639
SAS Drive cable connector	1 or 2	5.4.3.3.1.2	SAS Drive plug	2	5.4.3.3.1.1
			SAS MultiLink Drive plug	4	5.4.3.3.1.5
			SATA device plug	1	See SATA
SAS Drive backplane connector	2	5.4.3.3.1.3	SAS Drive plug	2	5.4.3.3.1.1
			SAS MultiLink Drive plug	4	5.4.3.3.1.5
			SATA device plug	1	See SATA
^a A maximum of four physical links support SAS applications.					

Table 4 — Connectors (part 2 of 4)

Type of connector	Physical links	Reference	Attaches to		
			Type of connector	Physical links	Reference
SAS Multilink Drive plug	4	5.4.3.3.1.5	SAS Drive cable connector	1 or 2	5.4.3.3.1.2
			SAS Drive backplane connector	2	5.4.3.3.1.3
			SAS MultiLink Drive cable connector	4	5.4.3.3.1.6
			SAS MultiLink Drive backplane connector	4	5.4.3.3.1.7
			Multifunction 6X Unshielded receptacle connector	6 ^a	See SFF-8639
SAS MultiLink Drive cable connector	4	5.4.3.3.1.6	SAS Drive plug	2	5.4.3.3.1.1
			SAS MultiLink Drive plug	4	5.4.3.3.1.5
			SATA device plug	1	See SATA
SAS MultiLink Drive backplane connector	4	5.4.3.3.1.7	SAS Drive plug	2	5.4.3.3.1.1
			SAS MultiLink Drive plug	4	5.4.3.3.1.5
			SATA device plug	1	See SATA
Multifunction 12 Gb/s 6x Unshielded receptacle connector	6 ^a	See SFF-8639	SAS Drive plug	2	5.4.3.3.1.1
			SAS MultiLink Drive plug	4	5.4.3.3.1.5
			SATA device plug	1	See SATA
Micro SAS plug	2	5.4.3.3.1.12	Micro SAS receptacle	2	5.4.3.3.1.13
Micro SAS receptacle	2	5.4.3.3.1.13	Micro SAS plug	2	5.4.3.3.1.12
			Micro SATA device plug	1	See SATA
SAS High Density Drive plug	8	5.4.3.3.1.9	SAS High Density Drive backplane connector	8	5.4.3.3.1.10
SAS High Density Drive backplane connector	8	5.4.3.3.1.10	SAS High Density Drive plug	8	5.4.3.3.1.9
SAS internal connectors - other					
SAS 4i cable receptacle		Obsolete			
SAS 4i plug		Obsolete			
Mini SAS 4i cable plug		Obsolete			
Mini SAS 4i receptacle		Obsolete			
Mini SAS HD 4i cable plug	4	5.4.3.3.2.1	Mini SAS HD 4i receptacle	4	5.4.3.3.2.3
			Mini SAS HD 8i receptacle	8	5.4.3.3.2.4
			Mini SAS HD 16i receptacle	16	5.4.3.3.2.5
Mini SAS HD 8i cable plug	8	5.4.3.3.2.2	Mini SAS HD 8i receptacle	8	5.4.3.3.2.4
			Mini SAS HD 16i receptacle	16	5.4.3.3.2.5
Mini SAS HD 4i receptacle	4	5.4.3.3.2.3	Mini SAS HD 4i cable plug	4	5.4.3.3.2.1
^a A maximum of four physical links support SAS applications.					

Table 4 — Connectors (part 3 of 4)

Type of connector	Physical links	Reference	Attaches to		
			Type of connector	Physical links	Reference
Mini SAS HD 8i receptacle	8	5.4.3.3.2.4	Mini SAS HD 4i cable plug	4	5.4.3.3.2.1
			Mini SAS HD 8i cable plug	8	5.4.3.3.2.2
Mini SAS HD 16i receptacle	16	5.4.3.3.2.5	Mini SAS HD 4i cable plug	4	5.4.3.3.2.1
			Mini SAS HD 8i cable plug	8	5.4.3.3.2.2
SlimSAS 4i cable plug	4	5.4.3.3.3.1	SlimSAS 4i receptacle	4	5.4.3.3.3.3
SlimSAS 4i receptacle	4	5.4.3.3.3.3	SlimSAS 4i cable plug	4	5.4.3.3.3.1
SlimSAS 8i cable plug	8	5.4.3.3.3.2	SlimSAS 8i receptacle	8	5.4.3.3.3.4
SlimSAS 8i receptacle	8	5.4.3.3.3.4	SlimSAS 8i cable plug	8	5.4.3.3.3.2
SAS MiniLink 4i cable plug	4	5.4.3.3.4.1	SAS MiniLink 4i receptacle	4	5.4.3.3.4.3
SAS MiniLink 4i receptacle	4	5.4.3.3.4.3	SAS MiniLink 4i cable plug	4	5.4.3.3.4.1
SAS MiniLink 8i cable plug	8	5.4.3.3.4.2	SAS MiniLink 8i receptacle	8	5.4.3.3.4.4
SAS MiniLink 8i receptacle	8	5.4.3.3.4.4	SAS MiniLink 8i cable plug	8	5.4.3.3.4.2
SuprKewl 4i cable plug	4	5.4.3.3.5.1	SuprKewl 4i receptacle	4	5.4.3.3.5.4
SuprKewl 4i receptacle	4	5.4.3.3.5.4	SuprKewl 4i cable plug	4	5.4.3.3.5.1
SuprKewl 8i cable plug	8	5.4.3.3.5.2	SuprKewl 8i receptacle	8	5.4.3.3.5.5
SuprKewl 8i receptacle	8	5.4.3.3.5.5	SuprKewl 8i cable plug	8	5.4.3.3.5.2
SuprKewl 16i cable plug	16	5.4.3.3.5.3	SuprKewl 16i receptacle	16	5.4.3.3.5.6
SuprKewl 16i receptacle	16	5.4.3.3.5.6	SuprKewl 16i cable plug	16	5.4.3.3.5.3
SAS external connectors					
Mini SAS 4x cable plug		Obsolete			
Mini SAS 4x receptacle		Obsolete			
Mini SAS 4x active cable assembly plug		Obsolete			
Mini SAS 4x active receptacle		Obsolete			
Mini SAS HD 4x cable plug	4	5.4.3.4.1.1	Mini SAS HD 4x receptacle	4	5.4.3.4.1.3
			Mini SAS HD 8x receptacle	8	5.4.3.4.1.4
			Mini SAS HD 16x receptacle	16	5.4.3.4.1.5
Mini SAS HD 8x cable plug	8	5.4.3.4.1.2	Mini SAS HD 8x receptacle	8	5.4.3.4.1.4
			Mini SAS HD 16x receptacle	16	5.4.3.4.1.5
Mini SAS HD 4x receptacle	4	5.4.3.4.1.3	Mini SAS HD 4x cable plug	4	5.4.3.4.1.1
Mini SAS HD 8x receptacle	8	5.4.3.4.1.4	Mini SAS HD 4x cable plug	4	5.4.3.4.1.1
			Mini SAS HD 8x cable plug	8	5.4.3.4.1.2
a A maximum of four physical links support SAS applications.					

Table 4 — Connectors (part 4 of 4)

Type of connector	Physical links	Reference	Attaches to		
			Type of connector	Physical links	Reference
Mini SAS HD 16x receptacle	16	5.4.3.4.1.5	Mini SAS HD 4x cable plug	4	5.4.3.4.1.1
			Mini SAS HD 8x cable plug	8	5.4.3.4.1.2
QSFP cable plug	4	5.4.3.4.2.1	QSFP receptacle	4	5.4.3.4.2.2
QSFP receptacle	4	5.4.3.4.2.2	QSFP cable plug	4	5.4.3.4.2.1
^a A maximum of four physical links support SAS applications.					

A SAS icon (see Annex K) should be placed on or near each SAS connector.

Editor’s Note 1: New section, change bars suspended

5.4.3.3.5 SuprKewl internal connectors

5.4.3.3.5.1 SuprKewl 4i cable plug connector

The SuprKewl 4i cable plug connector is the Plug Connector with 38 Contacts mechanical interface defined in SFF-TA-1016. The recommended electrical performance limits for mated connector pairs supporting rates of 22.5 Gbit/s are defined in Annex J.

Figure 49 shows the SuprKewl 4i cable plug connector.

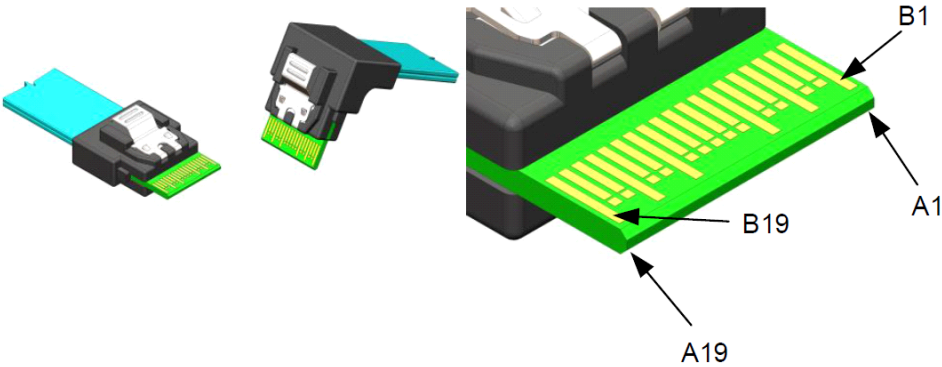


Figure 49 — SuprKewl 4i cable plug connector

Table 20 and table 21 define the pin assignments for the SuprKewl 4i cable plug connector. This connector plugs into the SuprKewl 4i receptacle connector (see 5.4.3.3.5.4).

5.4.3.3.5.2 SuprKewl 8i cable plug connector

The SuprKewl 8i cable plug connector is the Plug Connector with 74 Contacts mechanical interface defined in SFF-TA-1016. The recommended electrical performance limits for mated connector pairs supporting rates of 22.5 Gbit/s are defined in Annex J.

Figure 50 shows the SuprKewl 8i cable plug connector.

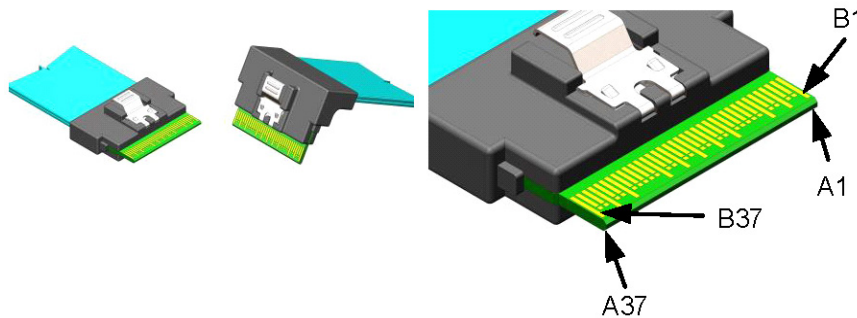


Figure 50 — SuprKewl 8i cable plug connector

Table 22 and table 23 define the pin assignments for the SuprKewl 8i cable plug connector. This connector plugs into the SuprKewl 8i receptacle connector (see 5.4.3.3.5.5).

5.4.3.3.5.3 SuprKewl 16i cable plug connector

The SuprKewl 16i cable plug connector is the Plug Connector with 148 Contacts mechanical interface defined in SFF-TA-1016. The recommended electrical performance limits for mated connector pairs supporting rates of 22.5 Gbit/s are defined in Annex J.

Figure 51 shows the SuprKewl 16i cable plug connector.

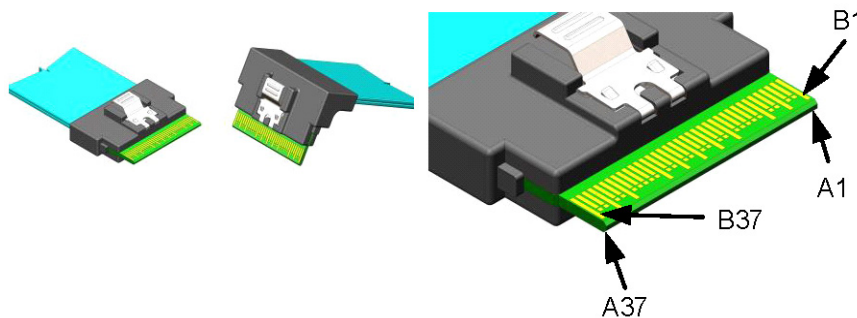


Figure 51 — SuprKewl 16i cable plug connector

Table 24 and table 25 define the pin assignments for the SuprKewl 16i cable plug connector. This connector plugs into the SuprKewl 16i receptacle connector (see 5.4.3.3.5.6).

5.4.3.3.5.4 SuprKewl 4i receptacle connector

The SuprKewl 4i receptacle connector is the Receptacle Connector with 38 Contacts mechanical interface defined in SFF-TA-1016. The recommended electrical performance limits for mated connector pairs supporting rates of 22.5 Gbit/s are defined in Annex J.

Figure 52 shows the SuprKewl 4i receptacle connector.

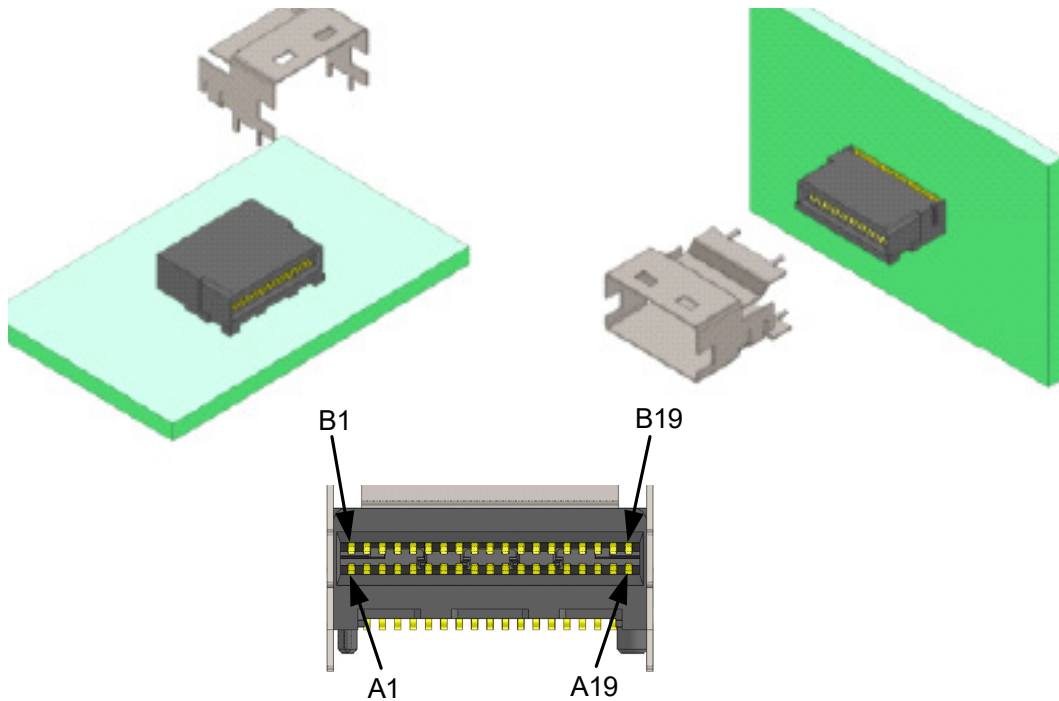


Figure 52 — SuprKewl 4i receptacle connector

Table 20 and table 21 define the pin assignments for the SuprKewl 4i receptacle connector. This connector accepts the SuprKewl 4i cable plug connector (see 5.4.3.3.5.1).

5.4.3.3.5.5 SuprKewl 8i receptacle connector

The SuprKewl 8i receptacle connector is the Receptacle Connector with 74 Contacts mechanical interface defined in SFF-TA-1016. The recommended electrical performance limits for mated connector pairs supporting rates of 22.5 Gbit/s are defined in Annex J.

Figure 53 shows the SuprKewl 8i receptacle connector.

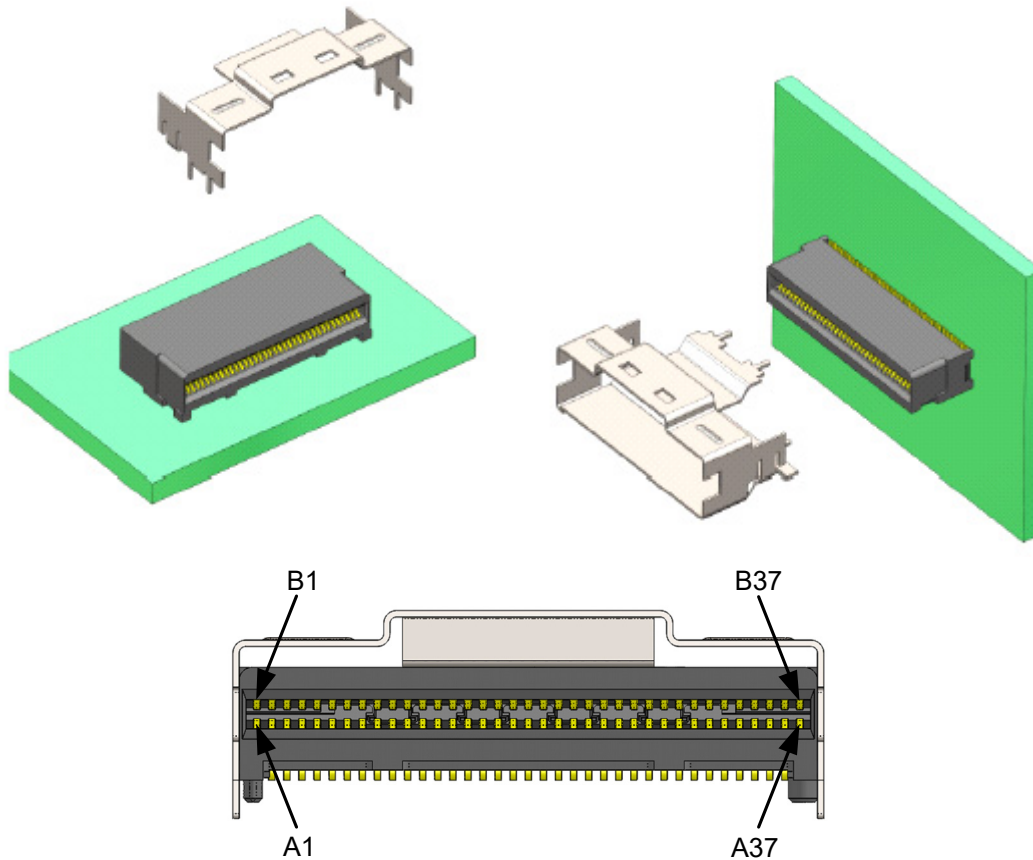


Figure 53 — SuprKewl 8i receptacle connector

Table 22 and table 23 define the pin assignments for the SuprKewl 8i receptacle connector. This connector accepts the SuprKewl 8i cable plug connector (see 5.4.3.3.5.2).

5.4.3.3.5.6 SuprKewl 16i receptacle connector

The SuprKewl 16i receptacle connector is the Receptacle Connector with 148 Contacts mechanical interface defined in SFF-TA-1016. The recommended electrical performance limits for mated connector pairs supporting rates of 22.5 Gbit/s are defined in Annex J.

Figure 54 shows the SuprKewl 16i receptacle connector.

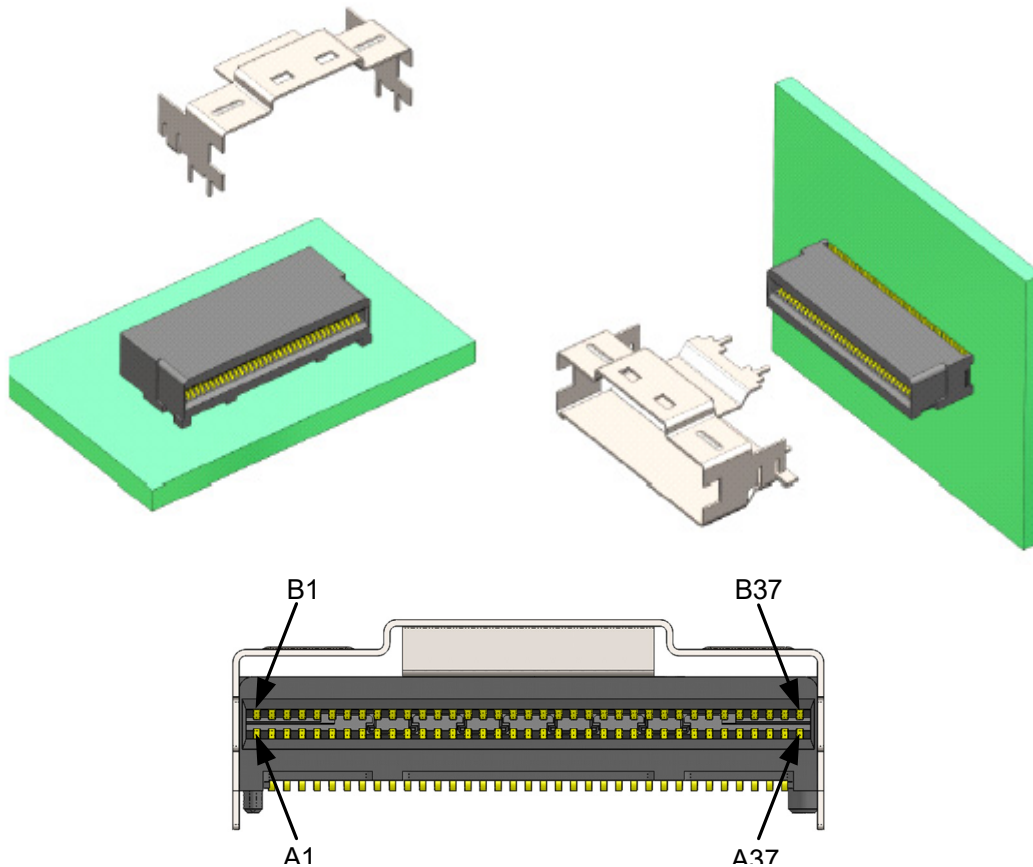


Figure 54 — SuprKewl 16i receptacle connector

Table 24 and table 25 define the pin assignments for the SuprKewl 16i receptacle connector. This connector accepts the SuprKewl 16i cable plug connector (see 5.4.3.3.5.3).

5.4.3.3.5.7 SuprKewl connector pin assignments

Editor's Note 2: SFF-TA-1016 does not use "mating level", it uses first-mate (all grounds) and

[second-mate \(all other\).](#)

Table 20 defines the pin assignments for SuprKewl 4i cable plug connectors (see 5.4.3.3.5.1) and SuprKewl 4i receptacle connectors (see 5.4.3.3.5.4) for controller applications using one, two, three, or four of the physical links.

Table 20 — Controller SuprKewl 4i connector pin assignments and physical link usage

Signal	Pin usage based on number of physical links supported by the cable assembly				Mating level ^a
	One	Two	Three	Four	
RX 0+	A2	A2	A2	A2	Third
RX 0-	A3	A3	A3	A3	
RX 1+	N/C	A5	A5	A5	
RX 1-	N/C	A6	A6	A6	
SIDEBAND 7	A8	A8	A8	A8	Third
SIDEBAND 4	A9	A9	A9	A9	
SIDEBAND 3	A10	A10	A10	A10	
SIDEBAND +	A11	A11	A11	A11	
SIDEBAND -	A12	A12	A12	A12	Third
RX 2+	N/C	N/C	A14	A14	
RX 2-	N/C	N/C	A15	A15	
RX 3+	N/C	N/C	N/C	A17	
RX 3-	N/C	N/C	N/C	A18	Third
TX 0+	B2	B2	B2	B2	
TX 0-	B3	B3	B3	B3	
TX 1+	N/C	B5	B5	B5	
TX 1-	N/C	B6	B6	B6	Third
SIDEBAND 0	B8	B8	B8	B8	
SIDEBAND 1	B9	B9	B9	B9	
SIDEBAND 2	B10	B10	B10	B10	
SIDEBAND 5	B11	B11	B11	B11	Third
SIDEBAND 6	B12	B12	B12	B12	
TX 2+	N/C	N/C	B14	B14	
TX 2-	N/C	N/C	B15	B15	
TX 3+	N/C	N/C	N/C	B17	Third
TX 3-	N/C	N/C	N/C	B18	
SIGNAL GROUND	A1, A4, A7, A13, A16, A19, B1, B4, B7, B13, B16, B19				First
^a The mating level indicates the physical dimension of the contact (see SFF-TA-1016).					

The use of the sideband signals is vendor specific.

Table 21 defines the pin assignments for SuprKewl 4i cable plug connectors (see 5.4.3.3.5.1) and SuprKewl 4i receptacle connectors (see 5.4.3.3.5.4) for backplane applications using one, two, three, or four of the physical links.

Table 21 — Backplane SuprKewl 4i connector pin assignments and physical link usage

Signal	Pin usage based on number of physical links supported by the cable assembly				Mating level ^a
	One	Two	Three	Four	
RX 0+	A2	A2	A2	A2	Third
RX 0-	A3	A3	A3	A3	
RX 1+	N/C	A5	A5	A5	
RX 1-	N/C	A6	A6	A6	
SIDEBAND 0	A8	A8	A8	A8	Third
SIDEBAND 1	A9	A9	A9	A9	
SIDEBAND 2	A10	A10	A10	A10	
SIDEBAND 5	A11	A11	A11	A11	
SIDEBAND 6	A12	A12	A12	A12	
RX 2+	N/C	N/C	A14	A14	Third
RX 2-	N/C	N/C	A15	A15	
RX 3+	N/C	N/C	N/C	A17	
RX 3-	N/C	N/C	N/C	A18	
TX 0+	B2	B2	B2	B2	Third
TX 0-	B3	B3	B3	B3	
TX 1+	N/C	B5	B5	B5	
TX 1-	N/C	B6	B6	B6	
SIDEBAND 7	B8	B8	B8	B8	Third
SIDEBAND 4	B9	B9	B9	B9	
SIDEBAND 3	B10	B10	B10	B10	
SIDEBAND +	B11	B11	B11	B11	
SIDEBAND -	B12	B12	B12	B12	
TX 2+	N/C	N/C	B14	B14	Third
TX 2-	N/C	N/C	B15	B15	
TX 3+	N/C	N/C	N/C	B17	
TX 3-	N/C	N/C	N/C	B18	
SIGNAL GROUND	A1, A4, A7, A13, A16, A19, B1, B4, B7, B13, B16, B19				First
^a The mating level indicates the physical dimension of the contact (see SFF-TA-1016).					

The use of the sideband signals is vendor specific.

Table 22 defines the pin assignments for SuprKewl 8i cable plug connectors (see 5.4.3.3.5.2) and SuprKewl 8i receptacle connectors (see 5.4.3.3.5.5) for controller applications using one, two, three, four, five, six, seven, or eight of the physical links.

Table 22 — Controller SuprKewl 8i connector pin assignments and physical link usage (part 1 of 2)

Signal	Pin usage based on number of physical links supported by the cable assembly								Mating level ^a
	One	Two	Three	Four	Five	Six	Seven	Eight	
RX 0+	A2	A2	A2	A2	A2	A2	A2	A2	Third
RX 0-	A3	A3	A3	A3	A3	A3	A3	A3	
RX 1+	N/C	A5	A5	A5	A5	A5	A5	A5	
RX 1-	N/C	A6	A6	A6	A6	A6	A6	A6	
SIDEBAND 7A	A8	A8	A8	A8	A8	A8	A8	A8	Third
SIDEBAND 4A	A9	A9	A9	A9	A9	A9	A9	A9	
SIDEBAND 3A	A10	A10	A10	A10	A10	A10	A10	A10	
SIDEBAND A+	A11	A11	A11	A11	A11	A11	A11	A11	
SIDEBAND A-	A12	A12	A12	A12	A12	A12	A12	A12	
RX 2+	N/C	N/C	A14	A14	A14	A14	A14	A14	Third
RX 2-	N/C	N/C	A15	A15	A15	A15	A15	A15	
RX 3+	N/C	N/C	N/C	A17	A17	A17	A17	A17	
RX 3-	N/C	N/C	N/C	A18	A18	A18	A18	A18	
RX 4+	N/C	N/C	N/C	N/C	A20	A20	A20	A20	Third
RX 4-	N/C	N/C	N/C	N/C	A21	A21	A21	A21	
RX 5+	N/C	N/C	N/C	N/C	N/C	A23	A23	A23	
RX 5-	N/C	N/C	N/C	N/C	N/C	A24	A24	A24	
SIDEBAND 7B	A26	A26	A26	A26	A26	A26	A26	A26	Third
SIDEBAND 4B	A27	A27	A27	A27	A27	A27	A27	A27	
SIDEBAND 3B	A28	A28	A28	A28	A28	A28	A28	A28	
SIDEBAND B+	A29	A29	A29	A29	A29	A29	A29	A29	
SIDEBAND B-	A30	A30	A30	A30	A30	A30	A30	A30	
RX 6+	N/C	N/C	N/C	N/C	N/C	N/C	A32	A32	Third
RX 6-	N/C	N/C	N/C	N/C	N/C	N/C	A33	A33	
RX 7+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	A35	
RX 7-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	A36	
TX 0+	B2	B2	B2	B2	B2	B2	B2	B2	Third
TX 0-	B3	B3	B3	B3	B3	B3	B3	B3	
TX 1+	N/C	B5	B5	B5	B5	B5	B5	B5	
TX 1-	N/C	B6	B6	B6	B6	B6	B6	B6	

^a The mating level indicates the physical dimension of the contact (see SFF-TA-1016).

Table 22 — Controller SuprKewl 8i connector pin assignments and physical link usage (part 2 of 2)

Signal	Pin usage based on number of physical links supported by the cable assembly								Mating level ^a
	One	Two	Three	Four	Five	Six	Seven	Eight	
SIDEBAND 0A	B8	B8	B8	B8	B8	B8	B8	B8	Third
SIDEBAND 1A	B9	B9	B9	B9	B9	B9	B9	B9	
SIDEBAND 2A	B10	B10	B10	B10	B10	B10	B10	B10	
SIDEBAND 5A	B11	B11	B11	B11	B11	B11	B11	B11	
SIDEBAND 6A	B12	B12	B12	B12	B12	B12	B12	B12	
TX 2+	N/C	N/C	B14	B14	B14	B14	B14	B14	Third
TX 2-	N/C	N/C	B15	B15	B15	B15	B15	B15	
TX 3+	N/C	N/C	N/C	B17	B17	B17	B17	B17	
TX 3-	N/C	N/C	N/C	B18	B18	B18	B18	B18	
TX 4+	N/C	N/C	N/C	N/C	B20	B20	B20	B20	Third
TX 4-	N/C	N/C	N/C	N/C	B21	B21	B21	B21	
TX 5+	N/C	N/C	N/C	N/C	N/C	B23	B23	B23	
TX 5-	N/C	N/C	N/C	N/C	N/C	B24	B24	B24	
SIDEBAND 0B	B26	B26	B26	B26	B26	B26	B26	B26	Third
SIDEBAND 1B	B27	B27	B27	B27	B27	B27	B27	B27	
SIDEBAND 2B	B28	B28	B28	B28	B28	B28	B28	B28	
SIDEBAND 5B	B29	B29	B29	B29	B29	B29	B29	B29	
SIDEBAND 6B	B30	B30	B30	B30	B30	B30	B30	B30	
TX 6+	N/C	N/C	N/C	N/C	N/C	N/C	B32	B32	Third
TX 6-	N/C	N/C	N/C	N/C	N/C	N/C	B33	B33	
TX 7+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	B35	
TX 7-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	B36	
SIGNAL GROUND	A1, A4, A7, A13, A16, A19, A22, A25, A31, A34, A37, B1, B4, B7, B13, B16, B19, B22, B25, B31, B34, B37								First
^a The mating level indicates the physical dimension of the contact (see SFF-TA-1016).									

The use of the sideband signals is vendor specific.

Table 23 defines the pin assignments for SuprKewl 8i cable plug connectors (see 5.4.3.3.5.2) and SuprKewl 8i receptacle connectors (see 5.4.3.3.5.5) for backplane applications using one, two, three, four, five, six, seven, or eight of the physical links.

Table 23 — Backplane SuprKewl 8i connector pin assignments and physical link usage (part 1 of 2)

Signal	Pin usage based on number of physical links supported by the cable assembly								Mating level ^a
	One	Two	Three	Four	Five	Six	Seven	Eight	
RX 0+	A2	A2	A2	A2	A2	A2	A2	A2	Third
RX 0-	A3	A3	A3	A3	A3	A3	A3	A3	
RX 1+	N/C	A5	A5	A5	A5	A5	A5	A5	
RX 1-	N/C	A6	A6	A6	A6	A6	A6	A6	
SIDEBAND 0A	A8	A8	A8	A8	A8	A8	A8	A8	Third
SIDEBAND 1A	A9	A9	A9	A9	A9	A9	A9	A9	
SIDEBAND 2A	A10	A10	A10	A10	A10	A10	A10	A10	
SIDEBAND 5A	A11	A11	A11	A11	A11	A11	A11	A11	
SIDEBAND 6A	A12	A12	A12	A12	A12	A12	A12	A12	Third
RX 2+	N/C	N/C	A14	A14	A14	A14	A14	A14	
RX 2-	N/C	N/C	A15	A15	A15	A15	A15	A15	
RX 3+	N/C	N/C	N/C	A17	A17	A17	A17	A17	
RX 3-	N/C	N/C	N/C	A18	A18	A18	A18	A18	Third
RX 4+	N/C	N/C	N/C	N/C	A20	A20	A20	A20	
RX 4-	N/C	N/C	N/C	N/C	A21	A21	A21	A21	
RX 5+	N/C	N/C	N/C	N/C	N/C	A23	A23	A23	
RX 5-	N/C	N/C	N/C	N/C	N/C	A24	A24	A24	Third
SIDEBAND 0B	A26	A26	A26	A26	A26	A26	A26	A26	
SIDEBAND 1B	A27	A27	A27	A27	A27	A27	A27	A27	
SIDEBAND 2B	A28	A28	A28	A28	A28	A28	A28	A28	
SIDEBAND 5B	A29	A29	A29	A29	A29	A29	A29	A29	Third
SIDEBAND 6B	A30	A30	A30	A30	A30	A30	A30	A30	
RX 6+	N/C	N/C	N/C	N/C	N/C	N/C	A32	A32	
RX 6-	N/C	N/C	N/C	N/C	N/C	N/C	A33	A33	
RX 7+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	A35	Third
RX 7-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	A36	
TX 0+	B2	B2	B2	B2	B2	B2	B2	B2	
TX 0-	B3	B3	B3	B3	B3	B3	B3	B3	
TX 1+	N/C	B5	B5	B5	B5	B5	B5	B5	Third
TX 1-	N/C	B6	B6	B6	B6	B6	B6	B6	
^a The mating level indicates the physical dimension of the contact (see SFF-TA-1016).									

Table 23 — Backplane SuprKewl 8i connector pin assignments and physical link usage (part 2 of 2)

Signal	Pin usage based on number of physical links supported by the cable assembly								Mating level ^a
	One	Two	Three	Four	Five	Six	Seven	Eight	
SIDEBAND 7A	B8	B8	B8	B8	B8	B8	B8	B8	Third
SIDEBAND 4A	B9	B9	B9	B9	B9	B9	B9	B9	
SIDEBAND 3A	B10	B10	B10	B10	B10	B10	B10	B10	
SIDEBAND A+	B11	B11	B11	B11	B11	B11	B11	B11	
SIDEBAND A-	B12	B12	B12	B12	B12	B12	B12	B12	
TX 2+	N/C	N/C	B14	B14	B14	B14	B14	B14	Third
TX 2-	N/C	N/C	B15	B15	B15	B15	B15	B15	
TX 3+	N/C	N/C	N/C	B17	B17	B17	B17	B17	
TX 3-	N/C	N/C	N/C	B18	B18	B18	B18	B18	
TX 4+	N/C	N/C	N/C	N/C	B20	B20	B20	B20	Third
TX 4-	N/C	N/C	N/C	N/C	B21	B21	B21	B21	
TX 5+	N/C	N/C	N/C	N/C	N/C	B23	B23	B23	
TX 5-	N/C	N/C	N/C	N/C	N/C	B24	B24	B24	
SIDEBAND 7B	B26	B26	B26	B26	B26	B26	B26	B26	Third
SIDEBAND 4B	B27	B27	B27	B27	B27	B27	B27	B27	
SIDEBAND 3B	B28	B28	B28	B28	B28	B28	B28	B28	
SIDEBAND B+	B29	B29	B29	B29	B29	B29	B29	B29	
SIDEBAND B-	B30	B30	B30	B30	B30	B30	B30	B30	
TX 6+	N/C	N/C	N/C	N/C	N/C	N/C	B32	B32	Third
TX 6-	N/C	N/C	N/C	N/C	N/C	N/C	B33	B33	
TX 7+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	B35	
TX 7-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	B36	
SIGNAL GROUND	A1, A4, A7, A13, A16, A19, A22, A25, A31, A34, A37 B1, B4, B7, B13, B16, B19, B22, B25, B31, B34, B37								First
^a The mating level indicates the physical dimension of the contact (see SFF-TA-1016).									

The use of the sideband signals is vendor specific.

Editor's Note 3: Text from 8i uses "using one, two, three, four, five, six, seven, or eight of the

physical links”, changed here to be “one to eight”.

Table 24 defines the pin assignments for SuprKewl 16i cable plug connectors (see 5.4.3.3.5.3) and SuprKewl 16i receptacle connectors (see 5.4.3.3.5.6) for controller applications using one to eight of the physical links.

Table 24 — Controller SuprKewl 16i connector pin assignments and physical link usage (part 1 of 4)

Signal	Pin usage based on number of physical links supported by the cable assembly								Mating level ^a
	One	Two	Three	Four	Five	Six	Seven	Eight	
RX 0+	A2	A2	A2	A2	A2	A2	A2	A2	Third
RX 0-	A3	A3	A3	A3	A3	A3	A3	A3	
RX 1+	N/C	A5	A5	A5	A5	A5	A5	A5	
RX 1-	N/C	A6	A6	A6	A6	A6	A6	A6	
SIDEBAND 7A	A8	A8	A8	A8	A8	A8	A8	A8	Third
SIDEBAND 4A	A9	A9	A9	A9	A9	A9	A9	A9	
SIDEBAND 3A	A10	A10	A10	A10	A10	A10	A10	A10	
SIDEBAND A+	A11	A11	A11	A11	A11	A11	A11	A11	
SIDEBAND A-	A12	A12	A12	A12	A12	A12	A12	A12	
RX 2+	N/C	N/C	A14	A14	A14	A14	A14	A14	Third
RX 2-	N/C	N/C	A15	A15	A15	A15	A15	A15	
RX 3+	N/C	N/C	N/C	A17	A17	A17	A17	A17	
RX 3-	N/C	N/C	N/C	A18	A18	A18	A18	A18	
RX 4+	N/C	N/C	N/C	N/C	A20	A20	A20	A20	Third
RX 4-	N/C	N/C	N/C	N/C	A21	A21	A21	A21	
RX 5+	N/C	N/C	N/C	N/C	N/C	A23	A23	A23	
RX 5-	N/C	N/C	N/C	N/C	N/C	A24	A24	A24	
SIDEBAND 7B	A26	A26	A26	A26	A26	A26	A26	A26	Third
SIDEBAND 4B	A27	A27	A27	A27	A27	A27	A27	A27	
SIDEBAND 3B	A28	A28	A28	A28	A28	A28	A28	A28	
SIDEBAND B+	A29	A29	A29	A29	A29	A29	A29	A29	
SIDEBAND B-	A30	A30	A30	A30	A30	A30	A30	A30	
RX 6+	N/C	N/C	N/C	N/C	N/C	N/C	A32	A32	Third
RX 6-	N/C	N/C	N/C	N/C	N/C	N/C	A33	A33	
RX 7+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	A35	
RX 7-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	A36	

^a The mating level indicates the physical dimension of the contact (see SFF-TA-1016).

Table 24 — Controller SuprKewl 16i connector pin assignments and physical link usage (part 2 of 4)

Signal	Pin usage based on number of physical links supported by the cable assembly								Mating level ^a
	One	Two	Three	Four	Five	Six	Seven	Eight	
RX 8+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	Third
RX 8-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
RX 9+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
RX 9-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
SIDEBAND 7C	A45	A45	A45	A45	A45	A45	A45	A45	Third
SIDEBAND 4C	A46	A46	A46	A46	A46	A46	A46	A46	
SIDEBAND 3C	A47	A47	A47	A47	A47	A47	A47	A47	
SIDEBAND C+	A48	A48	A48	A48	A48	A48	A48	A48	
SIDEBAND C-	A49	A49	A49	A49	A49	A49	A49	A49	
RX 10+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	Third
RX 10-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
RX 11+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
RX 11-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
RX12+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	Third
RX12-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
RX13+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
RX13-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
SIDEBAND 7D	A63	A63	A63	A63	A63	A63	A63	A63	Third
SIDEBAND 4D	A64	A64	A64	A64	A64	A64	A64	A64	
SIDEBAND 3D	A65	A65	A65	A65	A65	A65	A65	A65	
SIDEBAND D+	A66	A66	A66	A66	A66	A66	A66	A66	
SIDEBAND D-	A67	A67	A67	A67	A67	A67	A67	A67	
RX 14+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	Third
RX14-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
RX 15+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
RX 15-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
TX 0+	B2	B2	B2	B2	B2	B2	B2	B2	Third
TX 0-	B3	B3	B3	B3	B3	B3	B3	B3	
TX 1+	N/C	B5	B5	B5	B5	B5	B5	B5	
TX 1-	N/C	B6	B6	B6	B6	B6	B6	B6	
^a The mating level indicates the physical dimension of the contact (see SFF-TA-1016).									

Table 24 — Controller SuprKewl 16i connector pin assignments and physical link usage (part 3 of 4)

Signal	Pin usage based on number of physical links supported by the cable assembly								Mating level ^a
	One	Two	Three	Four	Five	Six	Seven	Eight	
SIDEBAND 0A	B8	B8	B8	B8	B8	B8	B8	B8	Third
SIDEBAND 1A	B9	B9	B9	B9	B9	B9	B9	B9	
SIDEBAND 2A	B10	B10	B10	B10	B10	B10	B10	B10	
SIDEBAND 5A	B11	B11	B11	B11	B11	B11	B11	B11	
SIDEBAND 6A	B12	B12	B12	B12	B12	B12	B12	B12	
TX 2+	N/C	N/C	B14	B14	B14	B14	B14	B14	Third
TX 2-	N/C	N/C	B15	B15	B15	B15	B15	B15	
TX 3+	N/C	N/C	N/C	B17	B17	B17	B17	B17	
TX 3-	N/C	N/C	N/C	B18	B18	B18	B18	B18	
TX 4+	N/C	N/C	N/C	N/C	B20	B20	B20	B20	Third
TX 4-	N/C	N/C	N/C	N/C	B21	B21	B21	B21	
TX 5+	N/C	N/C	N/C	N/C	N/C	B23	B23	B23	
TX 5-	N/C	N/C	N/C	N/C	N/C	B24	B24	B24	
SIDEBAND 0B	B26	B26	B26	B26	B26	B26	B26	B26	Third
SIDEBAND 1B	B27	B27	B27	B27	B27	B27	B27	B27	
SIDEBAND 2B	B28	B28	B28	B28	B28	B28	B28	B28	
SIDEBAND 5B	B29	B29	B29	B29	B29	B29	B29	B29	
SIDEBAND 6B	B30	B30	B30	B30	B30	B30	B30	B30	
TX 6+	N/C	N/C	N/C	N/C	N/C	N/C	B32	B32	Third
TX 6-	N/C	N/C	N/C	N/C	N/C	N/C	B33	B33	
TX 7+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	B35	
TX 7-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	B36	
TX 8+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	Third
TX 8-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
TX 9+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
TX 9-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
SIDEBAND 0C	A45	A45	A45	A45	A45	A45	A45	A45	Third
SIDEBAND 1C	A46	A46	A46	A46	A46	A46	A46	A46	
SIDEBAND 2C	A47	A47	A47	A47	A47	A47	A47	A47	
SIDEBAND 5C	A48	A48	A48	A48	A48	A48	A48	A48	
SIDEBAND 6C	A49	A49	A49	A49	A49	A49	A49	A49	
^a The mating level indicates the physical dimension of the contact (see SFF-TA-1016).									

Table 24 — Controller SuprKewl 16i connector pin assignments and physical link usage (part 4 of 4)

Signal	Pin usage based on number of physical links supported by the cable assembly								Mating level ^a
	One	Two	Three	Four	Five	Six	Seven	Eight	
TX 10+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	Third
TX 10-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
TX 11+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
TX 11-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
TX 12+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	Third
TX 12-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
TX 13+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
TX 13-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
SIDEBAND 0D	B63	B63	B63	B63	B63	B63	B63	B63	Third
SIDEBAND 1D	B64	B64	B64	B64	B64	B64	B64	B64	
SIDEBAND 2D	B65	B65	B65	B65	B65	B65	B65	B65	
SIDEBAND 5D	B66	B66	B66	B66	B66	B66	B66	B66	
SIDEBAND 6D	B67	B67	B67	B67	B67	B67	B67	B67	
TX 14+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	Third
TX 14-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
TX 15+	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
TX 15-	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
SIGNAL GROUND	A1, A4, A7, A13, A16, A19, A22, A25, A31, A34, A37, A38, A41, A44, A50, A53, A56, A59, A62, A68, A71, A74 B1, B4, B7, B13, B16, B19, B22, B25, B31, B34, B37, A38, B41, B44, B50, B53, B56, B59, B62, B68, B71, B74								First
^a The mating level indicates the physical dimension of the contact (see SFF-TA-1016).									

The use of the sideband signals is vendor specific.

Table 25 defines the pin assignments for SuprKewl 16i cable plug connectors (see 5.4.3.3.5.3) and SuprKewl 16i receptacle connectors (see 5.4.3.3.5.6) for controller applications using nine to 16 of the physical links.

Table 25 — Controller SuprKewl 16i connector pin assignments and physical link usage (part 1 of 4)

Signal	Pin usage based on number of physical links supported by the cable assembly								Mating level ^a
	Nine	Ten	11	12	13	14	15	16	
RX 0+	A2	A2	A2	A2	A2	A2	A2	A2	Third
RX 0-	A3	A3	A3	A3	A3	A3	A3	A3	
RX 1+	A5	A5	A5	A5	A5	A5	A5	A5	
RX 1-	A6	A6	A6	A6	A6	A6	A6	A6	
SIDEBAND 7A	A8	A8	A8	A8	A8	A8	A8	A8	Third
SIDEBAND 4A	A9	A9	A9	A9	A9	A9	A9	A9	
SIDEBAND 3A	A10	A10	A10	A10	A10	A10	A10	A10	
SIDEBAND A+	A11	A11	A11	A11	A11	A11	A11	A11	
SIDEBAND A-	A12	A12	A12	A12	A12	A12	A12	A12	
RX 2+	A14	A14	A14	A14	A14	A14	A14	A14	Third
RX 2-	A15	A15	A15	A15	A15	A15	A15	A15	
RX 3+	A17	A17	A17	A17	A17	A17	A17	A17	
RX 3-	A18	A18	A18	A18	A18	A18	A18	A18	
RX 4+	A20	A20	A20	A20	A20	A20	A20	A20	Third
RX 4-	A21	A21	A21	A21	A21	A21	A21	A21	
RX 5+	A23	A23	A23	A23	A23	A23	A23	A23	
RX 5-	A24	A24	A24	A24	A24	A24	A24	A24	
SIDEBAND 7B	A26	A26	A26	A26	A26	A26	A26	A26	Third
SIDEBAND 4B	A27	A27	A27	A27	A27	A27	A27	A27	
SIDEBAND 3B	A28	A28	A28	A28	A28	A28	A28	A28	
SIDEBAND B+	A29	A29	A29	A29	A29	A29	A29	A29	
SIDEBAND B-	A30	A30	A30	A30	A30	A30	A30	A30	
RX 6+	A32	A32	A32	A32	A32	A32	A32	A32	Third
RX 6-	A33	A33	A33	A33	A33	A33	A33	A33	
RX 7+	A35	A35	A35	A35	A35	A35	A35	A35	
RX 7-	A36	A36	A36	A36	A36	A36	A36	A36	
RX 8+	A39	N/C	N/C	N/C	N/C	N/C	N/C	N/C	Third
RX 8-	A40	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
RX 9+	A42	A42	N/C	N/C	N/C	N/C	N/C	N/C	
RX 9-	A43	A43	N/C	N/C	N/C	N/C	N/C	N/C	
^a The mating level indicates the physical dimension of the contact (see SFF-TA-1016).									

Table 25 — Controller SuprKewl 16i connector pin assignments and physical link usage (part 2 of 4)

Signal	Pin usage based on number of physical links supported by the cable assembly								Mating level ^a
	Nine	Ten	11	12	13	14	15	16	
SIDEBAND 7C	A45	A45	A45	A45	A45	A45	A45	A45	Third
SIDEBAND 4C	A46	A46	A46	A46	A46	A46	A46	A46	
SIDEBAND 3C	A47	A47	A47	A47	A47	A47	A47	A47	
SIDEBAND C+	A48	A48	A48	A48	A48	A48	A48	A48	
SIDEBAND C-	A49	A49	A49	A49	A49	A49	A49	A49	
RX 10+	A51	A51	A51	N/C	N/C	N/C	N/C	N/C	Third
RX 10-	A52	A52	A52	N/C	N/C	N/C	N/C	N/C	
RX 11+	A54	A54	A54	A54	N/C	N/C	N/C	N/C	
RX 11-	A55	A55	A55	A55	N/C	N/C	N/C	N/C	
RX12+	A57	A57	A57	A57	A57	N/C	N/C	N/C	Third
RX12-	A58	A58	A58	A58	A58	N/C	N/C	N/C	
RX13+	A60	A60	A60	A60	A60	A60	N/C	N/C	
RX13-	A61	A61	A61	A61	A61	A61	N/C	N/C	
SIDEBAND 7D	A63	A63	A63	A63	A63	A63	A63	A63	Third
SIDEBAND 4D	A64	A64	A64	A64	A64	A64	A64	A64	
SIDEBAND 3D	A65	A65	A65	A65	A65	A65	A65	A65	
SIDEBAND D+	A66	A66	A66	A66	A66	A66	A66	A66	
SIDEBAND D-	A67	A67	A67	A67	A67	A67	A67	A67	
RX 14+	A69	A69	A69	A69	A69	A69	A69	N/C	Third
RX14-	A70	A70	A70	A70	A70	A70	A70	N/C	
RX 15+	A72	A72	A72	A72	A72	A72	A72	A72	
RX 15-	A73	A73	A73	A73	A73	A73	A73	A73	
TX 0+	B2	B2	B2	B2	B2	B2	B2	B2	Third
TX 0-	B3	B3	B3	B3	B3	B3	B3	B3	
TX 1+	B5	B5	B5	B5	B5	B5	B5	B5	
TX 1-	B6	B6	B6	B6	B6	B6	B6	B6	
SIDEBAND 0A	B8	B8	B8	B8	B8	B8	B8	B8	Third
SIDEBAND 1A	B9	B9	B9	B9	B9	B9	B9	B9	
SIDEBAND 2A	B10	B10	B10	B10	B10	B10	B10	B10	
SIDEBAND 5A	B11	B11	B11	B11	B11	B11	B11	B11	
SIDEBAND 6A	B12	B12	B12	B12	B12	B12	B12	B12	
^a The mating level indicates the physical dimension of the contact (see SFF-TA-1016).									

Table 25 — Controller SuprKewl 16i connector pin assignments and physical link usage (part 3 of 4)

Signal	Pin usage based on number of physical links supported by the cable assembly								Mating level ^a
	Nine	Ten	11	12	13	14	15	16	
TX 2+	B14	B14	B14	B14	B14	B14	B14	B14	Third
TX 2-	B15	B15	B15	B15	B15	B15	B15	B15	
TX 3+	B17	B17	B17	B17	B17	B17	B17	B17	
TX 3-	B18	B18	B18	B18	B18	B18	B18	B18	
TX 4+	B20	B20	B20	B20	B20	B20	B20	B20	Third
TX 4-	B21	B21	B21	B21	B21	B21	B21	B21	
TX 5+	B23	B23	B23	B23	B23	B23	B23	B23	
TX 5-	B24	B24	B24	B24	B24	B24	B24	B24	
SIDEBAND 0B	B26	B26	B26	B26	B26	B26	B26	B26	Third
SIDEBAND 1B	B27	B27	B27	B27	B27	B27	B27	B27	
SIDEBAND 2B	B28	B28	B28	B28	B28	B28	B28	B28	
SIDEBAND 5B	B29	B29	B29	B29	B29	B29	B29	B29	
SIDEBAND 6B	B30	B30	B30	B30	B30	B30	B30	B30	
TX 6+	B32	B32	B32	B32	B32	B32	B32	B32	Third
TX 6-	B33	B33	B33	B33	B33	B33	B33	B33	
TX 7+	B35	B35	B35	B35	B35	B35	B35	B35	
TX 7-	B36	B36	B36	B36	B36	B36	B36	B36	
TX 8+	B39	N/C	N/C	N/C	N/C	N/C	N/C	N/C	Third
TX 8-	B40	N/C	N/C	N/C	N/C	N/C	N/C	N/C	
TX 9+	B42	B42	N/C	N/C	N/C	N/C	N/C	N/C	
TX 9-	B43	B43	N/C	N/C	N/C	N/C	N/C	N/C	
SIDEBAND 0C	A45	A45	A45	A45	A45	A45	A45	A45	Third
SIDEBAND 1C	A46	A46	A46	A46	A46	A46	A46	A46	
SIDEBAND 2C	A47	A47	A47	A47	A47	A47	A47	A47	
SIDEBAND 5C	A48	A48	A48	A48	A48	A48	A48	A48	
SIDEBAND 6C	A49	A49	A49	A49	A49	A49	A49	A49	
TX 10+	B51	B51	B51	N/C	N/C	N/C	N/C	N/C	Third
TX 10-	B52	B52	B52	N/C	N/C	N/C	N/C	N/C	
TX 11+	B54	B54	B54	B54	N/C	N/C	N/C	N/C	
TX 11-	B55	B55	B55	B55	N/C	N/C	N/C	N/C	
^a The mating level indicates the physical dimension of the contact (see SFF-TA-1016).									

Table 25 — Controller SuprKewl 16i connector pin assignments and physical link usage (part 4 of 4)

Signal	Pin usage based on number of physical links supported by the cable assembly								Mating level ^a
	Nine	Ten	11	12	13	14	15	16	
TX 12+	B57	B57	B57	B57	B57	N/C	N/C	N/C	Third
TX 12-	B58	B58	B58	B58	B58	N/C	N/C	N/C	
TX 13+	B60	B60	B60	B60	B60	B60	N/C	N/C	
TX 13-	B61	B61	B61	B61	B61	B61	N/C	N/C	
SIDEBAND 0D	B63	B63	B63	B63	B63	B63	B63	B63	Third
SIDEBAND 1D	B64	B64	B64	B64	B64	B64	B64	B64	
SIDEBAND 2D	B65	B65	B65	B65	B65	B65	B65	B65	
SIDEBAND 5D	B66	B66	B66	B66	B66	B66	B66	B66	
SIDEBAND 6D	B67	B67	B67	B67	B67	B67	B67	B67	
TX 14+	B69	B69	B69	B69	B69	B69	B69	N/C	Third
TX 14-	B70	B70	B70	B70	B70	B70	B70	N/C	
TX 15+	B72	B72	B72	B72	B72	B72	B72	B72	
TX 15-	B73	B73	B73	B73	B73	B73	B73	B73	
SIGNAL GROUND	A1, A4, A7, A13, A16, A19, A22, A25, A31, A34, A37, A38, A41, A44, A50, A53, A56, A59, A62, A68, A71, A74 B1, B4, B7, B13, B16, B19, B22, B25, B31, B34, B37, A38, B41, B44, B50, B53, B56, B59, B62, B68, B71, B74								First
^a The mating level indicates the physical dimension of the contact (see SFF-TA-1016).									

The use of the sideband signals is vendor specific.