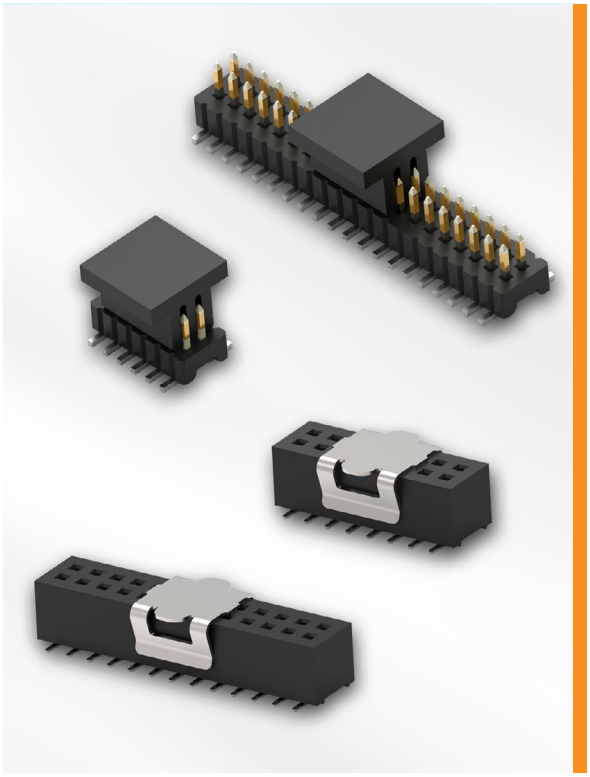


AMPMODU SMALL CENTERLINE INTERCONNECTION SYSTEMS

TE Connectivity's (TE) AMPMODU Small Centerline Interconnection Systems are fine pitch 1.0 mm [0.0394"] connectors that offer 85% space savings on the board when compared to standard 2.54 mm pitch products. Their dual-beam contact design provides a reliable electrical connection even in severe shock and vibration environments. To serve a broad range of design requirements, the portfolio offers up to 100 positions with 2 plating options and supports automated surface mounting and reflow processes.

BENEFITS

- 85% space savings on PCB with 1.0 mm centerline as compared to 2.54 mm [0.100"] connectors
- Reliable signal transfers through two points of contact even in severe shock/vibration applications
- Manufacturing flexibility in automated environment with surface mount configuration with pick and place cap
- Improved durability and corrosion resistance with gold plating
- Time savings thanks to reflow capable materials
- Greater flexibility in assembly of boards with dual entry receptacles

APPLICATIONS

- Industrial controls
- Building and home automation devices
- Servo drives
- Programmable Logic Controllers (PLC)
- IO devices
- Telecommunication equipment
- Robotics
- Instrumentation and test equipment

AMPMODU Small Centerline Interconnection Systems

KEY FEATURES

- **Centerline:** 1.0 mm [0.0394”]
- **Mounting style:** surface mount
- **Mounting angle:** vertical
- **Receptacle contact design:** dual beam
- **Receptacle entry specification:** dual entry
- **Housing material:** high-temp thermoplastic (LCP)
- **Packaging:** tubes with Pick & Place caps
- **Connector size:** double row, 5-50 per row
- **Solderibility:** re-flow capable up to 260°C

ELECTRICAL

- **Current rating**: 1A max per contact
- **Operating voltage:** 30VAC
- **Dielectric withstanding voltage:** 300VAC

MECHANICAL

- **Operating temperature:** -55°C to +125°C
- **Vibration:** EIA-364-28, no electrical discontinuity greater than 1 microsecond
- **Solderibility:** re-flow capable up to 260°C

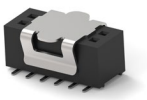
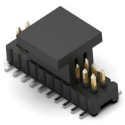
MATERIALS

- **Housing:** high-temperature thermoplastic (LCP)
- **Header/receptacle contact material:** copper alloy
- **Plating options:** 30µ” [0.76 µm] gold
  5µ” [0.1 µm] gold flash

SPECIFICATIONS

- RoHS compliant
- REACH compliant
- UL recognized at 1.0A
- CSA recognized at 0.8A
- **Product specification:** 108-32154
- **Application specification:** Receptacle: 114-32329
  Header: 114-32210

PRODUCT INFORMATION

Type	Rows	Positions per row	Mounting style	Plating	Packaging	Base part number
Vertical dual entry receptacle 	2	5 - 50	Surface mount	30µ” [76µm] Gold	Tube w/ P&P cap	2267440
				5µ” [0.1µm] Gold		2267465
Vertical unshrouded header 				30µ” [76µm] Gold		2331929
				5µ” [0.1µm] Gold		2331928

AMPMODU Small Centerline Interconnection Systems

SMART PART NUMBER DEFINITION

Smart part number
1MM – __ – D __ – VS – 00 – __ – TBP

Product series

1MM	AMPMODU Small Centerline 1.00 mm

Gender & type

R	Receptacle
HU	Unshrouded header

Number of rows

D	Double row

Positions per row

##	05 thru 50 (enter two digits)

Packaging

TBP	Tube with cap

Plating

F	Gold flash (5µ" gold)
H	30µ" gold

Tail length

00	N/A for surface mount

Orientation & termination

VS	Vertical surface mount

SMART PN EXAMPLES

- AMPMODU Small Centerline, 5 positions per row, receptacle, double row, vertical, surface mount, 30µ" gold, tube w/ cap
  1MM-R-D05-VS-00-H-TBP
- AMPMODU Small Centerline, 7 positions per row, unshrouded header, double row, vertical, surface mount, gold flash, tube w/ cap
  1MM-HU-D07-VS-00-F-TBP

TE PART NUMBER DEFINITION

Position	Part number	Position	Part number	Position	Part number	Position	Part number	Position	Part number
2 (1x2)	N/A	22 (11x2)	1-xxxxxxx-1	42 (21x2)	2-xxxxxxx-1	62 (31x2)	3-xxxxxxx-1	82 (41x2)	4-xxxxxxx-1
4 (2x2)	N/A	24 (12x2)	1-xxxxxxx-2	44 (22x2)	2-xxxxxxx-2	64 (32x2)	3-xxxxxxx-2	84 (42x2)	4-xxxxxxx-2
6 (3x2)	N/A	26 (13x2)	1-xxxxxxx-3	46 (23x2)	2-xxxxxxx-3	66 (33x2)	3-xxxxxxx-3	86 (43x2)	4-xxxxxxx-3
8 (4x2)	N/A	28 (14x2)	1-xxxxxxx-4	48 (24x2)	2-xxxxxxx-4	68 (34x2)	3-xxxxxxx-4	88 (44x2)	4-xxxxxxx-4
10 (5x2)	xxxxxxx-5	30 (15x2)	1-xxxxxxx-5	50 (25x2)	2-xxxxxxx-5	70 (35x2)	3-xxxxxxx-5	90 (45x2)	4-xxxxxxx-5
12 (6x2)	xxxxxxx-6	32 (16x2)	1-xxxxxxx-6	52 (26x2)	2-xxxxxxx-6	72 (36x2)	3-xxxxxxx-6	92 (46x2)	4-xxxxxxx-6
14 (7x2)	xxxxxxx-7	34 (17x2)	1-xxxxxxx-7	54 (27x2)	2-xxxxxxx-7	74 (37x2)	3-xxxxxxx-7	94 (47x2)	4-xxxxxxx-7
16 (8x2)	xxxxxxx-8	36 (18x2)	1-xxxxxxx-8	56 (28x2)	2-xxxxxxx-8	76 (38x2)	3-xxxxxxx-8	96 (48x2)	4-xxxxxxx-8
18 (9x2)	xxxxxxx-9	38 (19x2)	1-xxxxxxx-9	58 (29x2)	2-xxxxxxx-9	78 (39x2)	3-xxxxxxx-9	98 (49x2)	4-xxxxxxx-9
20 (10x2)	1-xxxxxxx-0	40 (20x2)	2-xxxxxxx-0	60 (30x2)	3-xxxxxxx-0	80 (40x2)	4-xxxxxxx-0	100 (50x2)	xxxxxxx-1

te.com

AMPMODU, TE Connectivity, TE Connectivity (logo) and Every Connection Counts are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

© 2021 TE Connectivity. All Rights Reserved.

3-1773984-4 AK 06/21

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

TE Connectivity:

TE50BR39J 175977-2 SBCHE64R7K U5254-000005-030PA 1393431-1 1743455-2 936348-1 SBCHE154R7K 2310537-1 2380312-2 917696-1 CPF0402B37K4E1 650075-000 1-794222-0 1-962915-1 2-292161-3 2377783-2 3631B101LL ROX05SJ18R 3430B2F51RTDF 141991-2 2834055-1 3-1393225-0 1903112-2 1969656-1 2005330-1 CRGCQ2010J3K3 MPT100C18RF RH73H2A40MKTN SMW73R0JT