AirBorn
a molex company

AVNET ABACUS



AIRBORN HIGH-RELIABILITY INTERCONNECTS

M SERIES (MICRO-D)

0.050" (1.27mm)

Our microminiature connectors are popular due to their rugged design and customization ease. Available in I/O, straight, right-angle & SMT board-mount models.

MSeries



KEY FEATURES:

- 200 mating cycles
- Current rating 3 Amps
- Operating Temperatures -55° to +125°C (205°C for HT)
- 30 and 24 AWG
- 4-128 Contacts
- 1, 2, 3, or 4 Rows
- Metal & plastic body material
- Qualified to MIL-DTL-83513
- PTH, SMT, pre-wired, & solder-cup termination options

COMMON APPLICATIONS:

- Avionics and flight control units.
- Radar systems and engine controllers.
- Missile systems, UAVs and unmanned vehicles.
- Head-mounted displays, robotics and other rugged military/defense electronics.

N SERIES (NANO-D)

0.025" (0.636mm)

Our nanominiature connectors are ideal for applications where reduced size & weight are essentials. Available in I/O, straight, right-angle & SMT board-mount models.

NSeries



KEY FEATURES:

- 200 mating cycles
- Current rating 1 Amps
- Operating Temperature -55° to +125°C
- 32 and 30 AWG
- 9-91 Contacts
- 1-2 Rows
- Metal body material
- Qualified to MIL-DTL-32139
- PTH, SMT, & pre-wired termination options

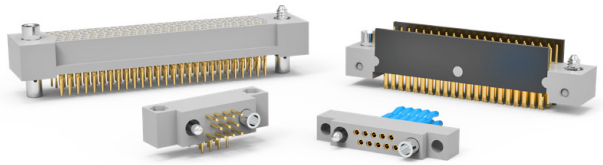
COMMON APPLICATIONS:

- Size- and weight-constrained systems: small satellites (CubeSats), UAVs and missiles.
- Medical devices and harsh industrial environments where miniaturization + ruggedness are required.
- Board-mount and I/O in tightly packed PCBs and cable harnesses (vertical, right-angle, SMT/PTH options).

R SERIES (rectangular PCB / high-density PCB connectors)

0.075" (1.905mm)

R-Series offers a diverse range of high-density, high-reliability connector options for use in tough, mission-critical designs. Ideal for avionics, space exploration, GPS, deep-sea exploration applications and more. Available in I/O, connector saver, SMT, straight, and right-angle board-mount models.



KEY FEATURES:

- 500 mating cycles
- Current rating 3 Amps
- Operating temperature -65° to +125°C
- 30 and 20 AWG
- Polarized and jacking mating hardware
- 10-604 Contacts
- 2, 3, 4, or 6 Rows
- Plastic body material
- Qualified to MIL-DTL-55302
- Crimp removable, plated thru-hole, press-fit compliant, single-layer flex, solder-cup, stackable, & SMT termination options

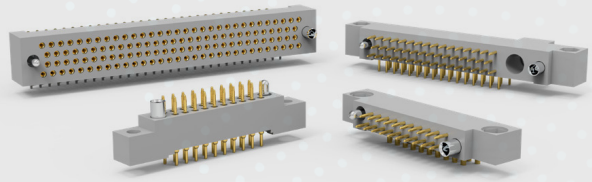
COMMON APPLICATIONS:

- High-density, space-saving PCB interconnects for flight and other harsh-environment electronics (widely used in flight applications).
- Satellite and space systems as part of AirBorn's flight-heritage product set.

W SERIES (rectangular PCB connectors)

0.100" (2.540mm))

AirBorn's "flagship" W Series connector maintains the original .100" contact spacing. Designed into countless applications where reliability is paramount such as with missiles, helicopters, torpedoes, and armored vehicles. Available in I/O, connector saver, straight, and right-angle board-mount models.



KEY FEATURES:

- 500 mating cycles
- Current rating 5 Amps power up to 23A
- Operating temperature -65° to +125°C
- 22 and 20 AWG
- 3-208 Contacts
- 1, 2, 3, 4, or 6 Rows
- Plastic body material
- Qualified to MIL-DTL-55302
- Crimp removable, plated thru-hole, single-layer flex, solder-cup, SMT, & wire wrap termination options

COMMON APPLICATIONS:

- Military & defense and rugged aerospace PCB interconnects (MIL-qualified use in flight systems).
- Commercial aircraft and other transport / heavy equipment systems that need durable rectangular board connectors.

VER SI (verSI / verSI family — high-speed, signal-integrity rectangular connectors)

0.050" (1.27mm)

The verSI open-pin field product line is designed to meet the requirements for high-speed/signal integrity applications with speeds up to 25 Gbps.



KEY FEATURES:

- 1500 mating cycles
- Current rating 2 Amps
- Operating Temperature -65° to +125°C
- 24 to 30 AWG pre-terminated wire availability
- Polarized and jacking mating hardware
- open field
- Differential pair and single-ended
- 10-500 Contacts
- 2, 4, 5, 6, 8 or 10 Rows
- Metal & plastic body material
- Press-fit, paste-in-hole, plated thru-hole, pre-wired
- jumper cable & flex jumper termination options

COMMON APPLICATIONS:

- High-speed, high-density board I/O for avionics, satellites, helicopters and commercial aircraft.
- Space, medical (MRI), radar, missiles and other systems requiring signal integrity and rugged performance (used where temperature/vibration/shock are extreme).





MORE INFORMATION

Please look at our Website
avnet-abacus.eu/airborn

/ OFFICES

AUSTRIA
Avnet EMG Elektronische
Bauelemente GmbH
Grünbergstraße 15/1/4.OG,
A-1120 Vienna
Phone: +43 (0)1 86642-0
Fax: +43 (0)1 86642-250
wien@avnet-abacus.eu

BELGIUM
De Kleetlaan 3
BE-1831 Diegem
Phone: +32 2 227 2000
diegem@avnet-abacus.eu

BULGARIA
48, Sitnyakovo Boulevard
Unit 1006, Floor 10,
BG-1505 Sofia
Phone: +359 896 135 069
bulgaria@avnet-abacus.eu

CROATIA
c/o Avnet Abacus Slovenia
Dunajska Cesta 167
SI-1000 Ljublijana
Phone: +386 (0)1 560 97 54
Fax: +386 (0)1 560 98 78
croatia@avnet-abacus.eu

CZECH REPUBLIC
Amazon Court Karolinska 661/4
CZ-18600 Prague
Phone: +420 234 091 011
Fax: +420 234 091 010
praha@avnet-abacus.eu

DENMARK
Knudlundvej 24, DK-8653 Them
Phone: +45 86 84 84 84
Fax: +45 86 84 82 44
them@avnet-abacus.eu

Lyskær 9, DK-2730 Herlev
Phone: +45 86 84 84 84
Fax: +45 43 29 37 00
herlev@avnet-abacus.eu

EGYPT
c/o Avnet Abacus Turkey
Tatlısu Mahallesi Pakdil
Sokak No: 7 Kat: 2
TR-34774 Umraniye Istanbul Turkiye
Phone: +90 216 52 88 370
Fax: +90 216 52 88 377
egypt@avnet-abacus.eu

ESTONIA
Suur-Jõe 63, Pärnu,
EE-80042 Pärnu Maakond
Phone: +372 56637737
paernu@avnet-abacus.eu

FINLAND
Klovinpellontie 1-3
Tower 1, Floor 6
FI-02180 Espoo
Phone: +35 820 749 9220
Fax: +35 820 749 9240
espoo@avnet-abacus.eu

FRANCE
Le Copernic
12, rue Jean Bart
FR-91300 Massy
Phone: +33 (0) 1 6447 2929
Fax: +33 (0) 1 6447 9150
paris@avnet-abacus.eu

8 chemin de la Terrasse
Bat D 1er étage
FR-31500 Toulouse
Phone: +33 (0) 5 6247 4787
Fax: +33 (0) 5 6247 4761
toulouse@avnet-abacus.eu

16 C Rue de Jouanet
FR-35700 Rennes
Phone: +33 (0) 2 9983 7720
Fax: +33 (0) 2 9983 4829
rennes@avnet-abacus.eu

Parc Club du Moulin à Vent
Bat 10, 33 rue du Dr. G Lévy
FR-69693, Vénissieux Cedex, Lyon
lyon@avnet-abacus.eu

GERMANY
AVNET EMG GMBH
Kaiserin-Augusta-Allee 14
DE-10553 Berlin
Phone: +49 (0) 30 790 997 0
Fax: +49 (0) 30 790 997 51
berlin@avnet-abacus.eu

Industriestr. 16
DE-76297 Stutensee
Phone: +49 (0) 7249 910 149
Fax: +49 (0) 7249 910 177
stutensee@avnet-abacus.eu

Rhenus-Platz 2
D-59439 Holzwickede/Dortmund
Phone: +49 (0) 2301 2959 0
Fax: +49 (0) 2301 2959 29
dortmund@avnet-abacus.eu

Ursula-de-Boor-Str. 45
22419 Hamburg
Phone: +49 (0) 40 608 23 59 0
Fax: +49 (0) 40 608 23 59 20
hamburg@avnet-abacus.eu

Im Technologiepark 2-8
DE-85586 Poing
Phone: +49 (0) 8121 775 400
bayern@avnet.eu

Lina-Ammon-Str. 19 b
DE-90471 Nuernberg
Phone: +49 (0) 911 244 250
Fax: +49 (0) 911 244 25 25
bayern@avnet.eu

Neue Ramtelstr. 4
DE-71229 Leonberg
Phone: +49 (0) 7152 3009 70
Fax: +49 (0) 7152 3009 96
stuttgart@avnet-abacus.eu

Rotenburger Str. 20
DE-30659 Hannover
Phone: +49 (0) 5132 5099 0
hannover@avnet-abacus.eu

Otto-von-Guericke-Ring 13-15
DE-65205, Wiesbaden
wiesbaden@avnet-abacus.eu

GREECE
c/o Abacus Avnet Serbia
Milentija Popovića 5B,
Floors 6-8
Belgrade RS-11070
Phone: +381 11 4022302
Fax: +381 11 4049900
belgrade@avnet-abacus.eu

HUNGARY
c/o Avnet Abacus Slovakia
GreenPoint Offices,
Blok F Turcianska 2
SK-82109 Bratislava
Phone: +421 232 242 608
Fax: +421 2 32 1111 40
budapest@avnet-abacus.eu

IRELAND
c/o Avnet Abacus Bolton
Deakins Business Park
Blackburn Road, Egerton
Bolton BL7 9RP
+44 (0)1204 936400
abacus.bolton@avnet-abacus.eu

ISRAEL
1 Habrosh Street
Bney Dror IL-4581500
Phone: +972 9 778 0280
Fax: +972 3 760 0794
israel@avnet-abacus.eu

ITALY
Via Manzoni 44
IT-20095 Cusano Milanino/Milano
Phone: +39 02 660 921
Fax: +39 02 66092 332
milano@avnet-abacus.eu

Viale dell'industria 23
IT-35129 Padova
Phone: +39 049 7800 381
Fax: +39 049 7730 36
padova@avnet-abacus.eu

Via Scaglia Est. 31/33
IT-41126 Modena
Phone: +39 059 34891
Fax: +39 059 344 993
modena@avnet-abacus.eu

Via Panciatichi 40/11
IT-50127 Firenze
Phone: +39 055 436 1928
Fax: +39 055 428 8810
firenze@avnet-abacus.eu

Via Tiburtina, 652/A
C/O Urban Places
IT-00159 Roma
Phone: +39 02 660 921
rome@avnet-abacus.eu

LATVIA
c/o Avnet Abacus Poland
Plac Solny 16
PL-50-062 Wroclaw
Phone: +48 71 34 205 99
Fax: +48 71 34 229 10
latvia@avnet-abacus.eu

LITHUANIA
c/o Avnet Abacus Poland
Plac Solny 16
PL-50-062 Wroclaw
Phone: +48 71 34 205 99
Fax: +48 71 34 229 10
lithiuania@avnet-abacus.eu

NETHERLANDS
Stadionstraat 2, 6th floor
NL-4815 NG Breda
Phone: +31 (0) 76 57 22 300
Fax: +31 (0) 76 57 22 303
breda@avnet-abacus.eu

NORWAY
Olaf Helsetsvei 6,
NO-0694 Oslo
Phone: +47 (0) 94 89 53 73
oslo@avnet-abacus.eu

POLAND
Plac Solny 16
PL-50-062 Wroclaw
Phone: +48 71 34 205 99
Fax: +48 71 34 229 10
wroclaw@avnet-abacus.eu

PORTUGAL
Tower Plaza, Rot. Eng. Edgar
Cardoso, 23,Piso 14, Sala E
PT-4400-676 Vila Nova de Gaia
Phone: +351 223 779502
Fax: +351 223 779503
portugal@avnet-abacus.eu

ROMANIA
SkyTower Building, 12th floor,
Calea Floreasca 246C,
RO-014476 Bucharest
Phone: +4021 528 16 90
romania@avnet-abacus.eu

SERBIA
Milentija Popovića 5B, Floors 6-8
Belgrade RS-11070
Phone: +381 11 4022302
Fax: +381 11 4049900
belgrade@avnet-abacus.eu

SLOVAKIA
GreenPoint Offices,
Blok F Turcianska 2
SK-82109, Bratislava
Phone: +421 232 242 608
Fax: +421 2 32 1111 40
slovakia@avnet-abacus.eu

SLOVENIA
Dunajska Cesta 167
SI-1000 Ljubljana
Phone: +386 (0)1 560 97 60
Fax: +386 (0)1 560 98 78
ljubljana@avnet-abacus.eu

SOUTH AFRICA
Block 13, Pinewood Office Park
33 Riley Road Woodmead,
ZA-2191 Sandton, Johannesburg
Phone: +27 (0)10 447 0180
avnet-abacus-sales-southafrica@avnet.eu

SPAIN
NyN Tower, C/Tarragona
149-157. Floor 19
ES-08014 Barcelona
Phone: +34 (0) 93 327 85 50
Fax: +34 (0) 93 425 05 44
barcelona@avnet-abacus.eu

Avenida Madariaga 1
Floor 3
ES-48014 Bilbao
Phone: +34 (0) 94 457 00 44
Fax: +34 (0) 94 456 88 55
bilbao@avnet-abacus.eu

Ronda de Poniente
(pq Empresarial Euronova),
4 - 2ª Planta, tres Cantos,
28760, Madrid
madrid@avnet-abacus.eu

SWEDEN
Avnet Nortec AB
Hemvärnsgatan 9
SE-171 54 Solna
Phone: +46 (0)8587 462 00
Fax: +46 (0)8587 460 01
stockholm@avnet-abacus.eu

Smörhålevägen 3
SE-43442 Kungsbacka
Phone: +46 (0)8 58746 200
Fax: +46 (0)300 140 15
gothenburg@avnet-abacus.eu

SWITZERLAND
Bernstrasse 394
CH-8953 Dietikon
Phone: +41 (0)43 322 49 90
Fax: +41 (0)43 322 49 99
zurich@avnet-abacus.eu

TURKEY
Tatlısu Mahallesi Pakdil
Sokak No: 7 Kat: 2
TR-34774 Umraniye Istanbul Turkiye
Phone: +90 216 52 88 370
Fax: +90 216 52 88 377
istanbul@avnet-abacus.eu

UK
Building 5, Waltham Park
White Waltham
Maidenhead Berkshire SL6 3TN
Phone: +44 (0)1628 512900
Fax: +44 (0)1628 512999
abacus.maidenhead@avnet-abacus.eu

Deakins Business Park
Blackburn Road, Egerton
Bolton BL7 9RP
+44 (0)1204 936400
abacus.bolton@avnet-abacus.eu

UKRAINE
c/o Avnet Abacus Poland
Plac Solny 16
PL-50-062 Wroclaw
Phone: +48 71 34 205 99
Fax: +48 71 34 229 10
ukraine@avnet-abacus.eu

All trademarks and logos are the property of their respective owners. This document provides a brief overview only, no binding offers are intended.
No guarantee as to the accuracy or completeness of any information. All information is subject to change, modifications and amendments without notice.