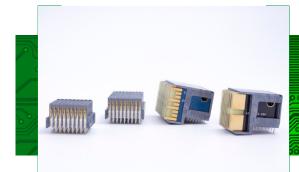
Amphenol Aerospace





R-VPX Ruggedized VITA 46

OVERVIEW

Amphenol's R-VPX is a ruggedized, high-speed, board-to-board interconnect system capable of data rates in excess of 10 Gbps, meeting and exceeding VITA 46 standards. This connector system gives users modularity and flexibility by utilizing PCB wafer construction with customized wafer-loading patterns.

DAUGHTER CARD CONFIGURATION: HOW TO ORDER

| 1. | | 2. | 3. | 4. | | 5. | 6. |
|---|-----------|---------------|-----------|--------------|-------|------------|----------------|
| Connecto | or Type | Gender | Size | Insert Ty | ре | Plating | Contact Finish |
| RVPX | - | Р | 16 | D | | М | 1 |
| . Conne | ector Ty | /pe | | 4. Ins | ert - | Гуре | |
| RVPX- | Rugge | ed High Sp | eed Board | D | Dif | fferential | |
| 2. Gende | ər | | | S | Sir | ngle-Ende | d |
| P | Modul | e | | P | Po | ower | |
| | | | | V | Sta | andard VIT | A 46 P0 |
| B. Size | 0. De eli | tion Insert | | 5. Pl | atin | g | |
| 08 | | | | M | 50 | Micro-Inc | hes Gold |
| 16 | 16 Pos | sition Insert | [| С | 30 | Micro-Inc | hes Gold |
| | | | | 6. Co | onta | act Termii | nation Finish |
| | | | | 1 | Tir | n ⊘ | |
| | | | | 2 | Tir | n-Lead | |
| | | | | | | | |
| $\begin{array}{ c c c c c c c c c c c c c$ | | | | | | | |
| | | | Daughte | er Card | | | |
| Module | Positio | on | | | Par | t No. | |

| Daughter Card | | | | | |
|------------------------------|--------------|---------------------------------------|--------------|--|--|
| Module Position | | Part No. Amphenol R-VPX Connectors | | | |
| P0 | | RVPX-P08VCX | RVPX-P08VMX* | | |
| P1, P2, P3, P4, P5, P6 | Differential | RVPX-P16DCX | RVPX-P16DMX* | | |
| | Single-Ended | RVPX-P16SCX | RVPX-P16SMX* | | |
| | | | | | |
| †Keying Guide Modules | | RVPX-HMD-X | RVPX-HMM-X | | |

*Refer to Step 6 (Contact Termination Finish) to complete part number †Contact AAO for Available Rotations

APPLICATIONS

- + Commercial and Military Aerospace
- + Electronic Systems/C4ISR
- + Ground Defense
- + Missile Defense
- + Space

FEATURES & BENEFITS

- + Qualified to VITA 46 for Open VPX applications
- + Fully intermountable & intermateable to existing VITA 46 connectors
- + Meets and exceeds VITA 47 performance requirements
- + Supports Ethernet, Fiber Channel, InfiniBand, and other protocols
- + Modular COTS lightweight connector system
- + Low mating force connector system
- + Pin-Less backplane connector family
- + Supports .8 inch card slot pitches
- + Up to 140 signals per inch
- + Contact current rating1.5 Amps
- + Can be combined with high power modules, RF Modules (VITA 67) and Optical modules (VITA 66)

MATERIALS

- Contacts: High performance copper alloy, available plated with 50 µin Au over 50 µin Ni in mating area (M) or 30 µin Au (C)
- + Housings: High Temperature thermoplastic
- + Operating Temp: -55 to +105C
- + Guide Hardware: Aluminum or passivated stainless steel

R-VPX Ruggedized VITA 46



PDS-258

BACKPLANE CONFIGURATION: HOW TO ORDER

| 1. | 2. | 3. | 4. | 5. | 6. |
|----------------|--------|------|-------------|---------|----------------|
| Connector Type | Gender | Size | Insert Type | Plating | Contact Finish |
| RVPX- | J | 16 | E | М | 1 |

1. Connector Type

| ctor Type | 4. Insert Type | | |
|-------------------------|----------------|--------|--|
| Rugged High Speed Board | М | Middle | |
| | E | End | |

2. Gender

RVPX-

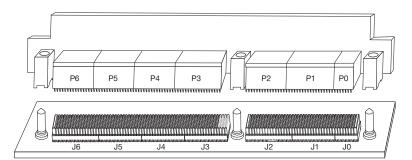
| J Backplane |
|-------------|
|-------------|

| E | Enu | |
|---|-----|--|
| | | |
| | | |
| | | |

| 3. Size | | | |
|---------|----|--------------------|--|
| | 08 | 8 Position Insert | |
| | 16 | 16 Position Insert | |

| 5. | Plating |
|----|---------|
| | |

| Μ | 50 Micro-Inches |
|---|-----------------|
| С | 30 Micro-Inches |
| | |



| Backplane | | | | |
|-----------------------|---------------------------------------|--------------|--|--|
| Module Position | Part No. Amphenol R-VPX Connectors | | | |
| JO | RVPX-J08ECX | RVPX-J08EMX* | | |
| J1, J3 J4, J5, | RVPX-J16MCX | RVPX-J16MMX* | | |
| J2, J6 | RVPX-J16ECX | RVPX-J16EMX* | | |
| | | | | |
| +Keying Guide Modules | RVPX-HPD-X | RVPX-HPM-X | | |

* Refer to Step 6 (Contact Termination Finish) to complete part number †Contact AAO for Available Rotations

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6. Contact Termination Finish

| 1 | Tin 🛞 |
|---|----------|
| 2 | Tin-Lead |

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