



# Defense – Why Harwin?

**From equipping ground troops in middle of the desert to high altitude surveillance drones, you need product that performs every time.** Specify Harwin product with confidence for rugged, robust performance in all these demanding scenarios.

**Harwin are certified to EN9100D / AS9100D,** and have been supplying to major manufacturers in this sector for many years. Our high-reliability connector range Datamate is widely used across the full variety of applications in the Defense industry.

When SWaP-C\* optimization is a must, then Datamate, Gecko and M300 from Harwin provide quality without compromise. Connectors in these ranges come with proven high reliability under the most extreme environmental conditions of use: vibration & shock severity, high temperature and humidity.

\* SWaP-C = Size, Weight and Power, Cost







# Typical Defense Applications

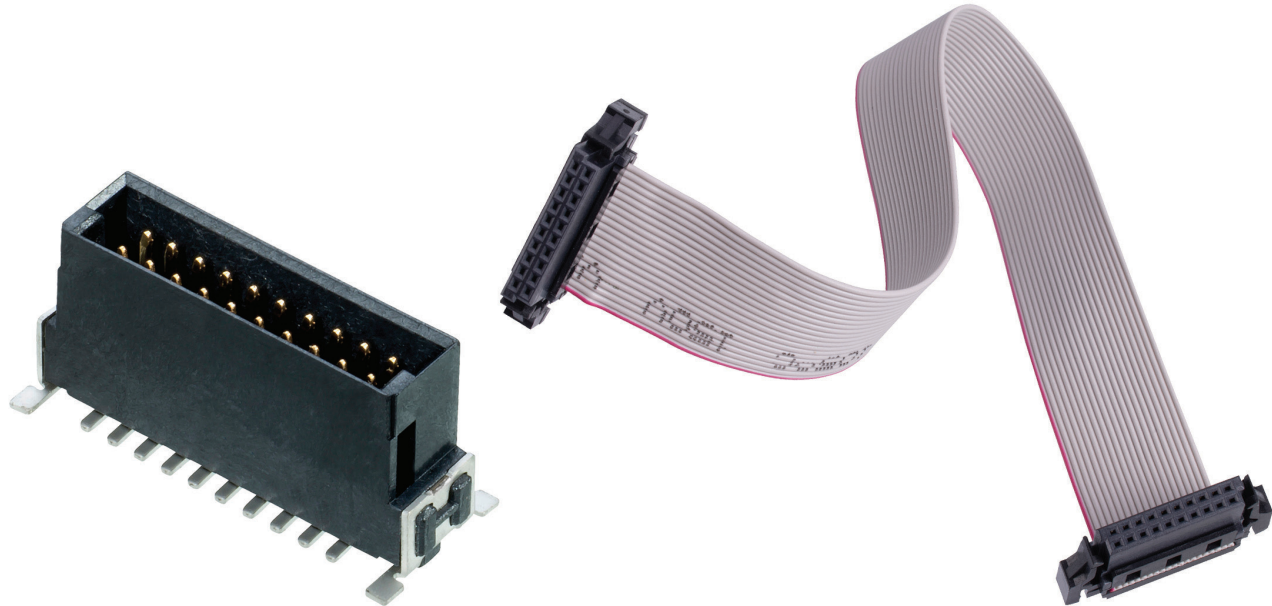
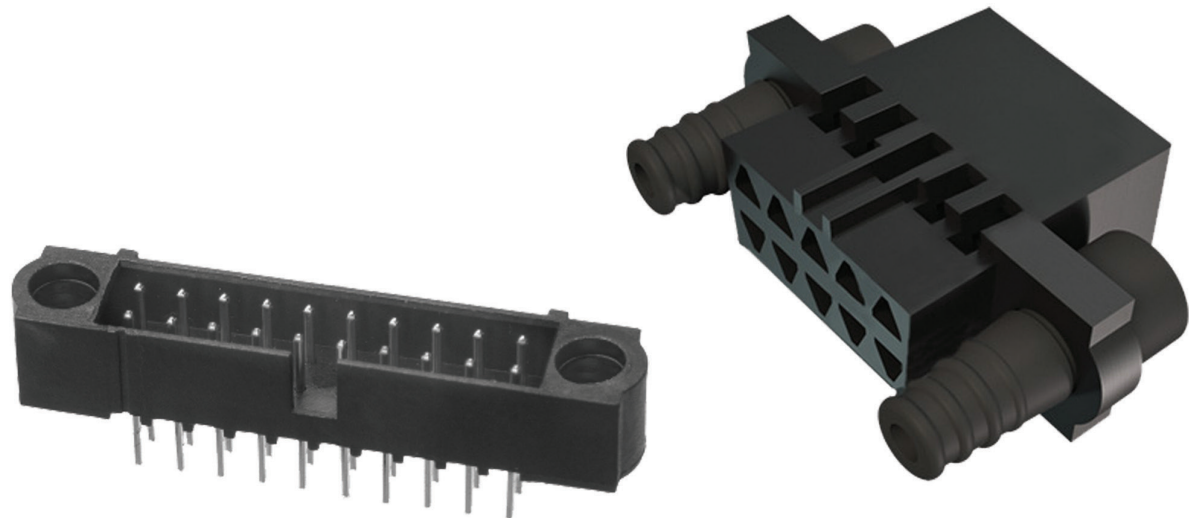

- Avionics, flight controls and telemetry, HUD (Heads-Up Displays), FADEC units
- Missile guidance, power systems, datacomms and targeting hardware
- UAVs - unmanned aircraft and smaller drones
- Radar systems, communications, detection equipment
- Marine and ground vehicle operations



High Reliability Connectors

					
Gecko-SL, Gecko-MT, Gecko Latch		Datamate J-Tek, Mix-Tek, Power, Coax, L-Tek		M300	
<ul style="list-style-type: none"><li>• 2A signal, 10A power</li></ul>	<ul style="list-style-type: none"><li>• Outgassing levels meet NASA / ESA requirements</li></ul>	<ul style="list-style-type: none"><li>• 3A signal, up to 40A power, 50Ω coax</li></ul>	<ul style="list-style-type: none"><li>• Outgassing levels meet NASA / ESA requirements</li></ul>	<ul style="list-style-type: none"><li>• Up to 10A power</li></ul>	<ul style="list-style-type: none"><li>• Outgassing levels meet NASA / ESA requirements</li></ul>
<ul style="list-style-type: none"><li>• -65°C to +150°C; 20g Vibration, 100g Shock</li></ul>	<ul style="list-style-type: none"><li>• Components to full cable assemblies available</li></ul>	<ul style="list-style-type: none"><li>• -55°C to +125°C; 10g Vibration, 100g Shock</li></ul>	<ul style="list-style-type: none"><li>• Components to full cable assemblies available</li></ul>	<ul style="list-style-type: none"><li>• -65°C to +175°C; 20g Vibration, 100g Shock</li></ul>	<ul style="list-style-type: none"><li>• Components to full cable assemblies available</li></ul>

Durable Industrial Connectors

					
Archer Control		M225		Circular Connectors	
<ul style="list-style-type: none"><li>• 1.2A per contact</li></ul>	<ul style="list-style-type: none"><li>• Polarized and shrouded; ready-made cables</li></ul>	<ul style="list-style-type: none"><li>• 3A per contact</li></ul>	<ul style="list-style-type: none"><li>• -55°C to +125°C; 10g Vibration, 100g Shock</li></ul>	<ul style="list-style-type: none"><li>• 13A per contact</li></ul>	<ul style="list-style-type: none"><li>• Performance requirements of MIL-DTL-5015</li></ul>
<ul style="list-style-type: none"><li>• Board-to-board variable height from 8-20mm</li></ul>	<ul style="list-style-type: none"><li>• 3Gbits/s data rate</li></ul>	<ul style="list-style-type: none"><li>• Fast action mate-before-lock system</li></ul>	<ul style="list-style-type: none"><li>• Cable-to-board at 2mm pitch</li></ul>	<ul style="list-style-type: none"><li>• Rugged and waterproof (exceeding IP67)</li></ul>	<ul style="list-style-type: none"><li>• Cable-to-cable, with panel mount options</li></ul>



EMC Shielding		PCB Sockets		PCB Hardware	
					
<ul style="list-style-type: none"><li>• SMT Clips and removable Nickel Silver Cans</li></ul>	<ul style="list-style-type: none"><li>• Clips available in corner and very low profile</li></ul>	<ul style="list-style-type: none"><li>• 2A to 20A options; 2, 3, 4 and 6 beam contacts</li></ul>	<ul style="list-style-type: none"><li>• Mating pin sizes Ø0.46mm to Ø2.30mm</li></ul>	<ul style="list-style-type: none"><li>• SMT Test Points &amp; Cable management clips</li></ul>	<ul style="list-style-type: none"><li>• Fixed &amp; Removable Jumper links</li></ul>
<ul style="list-style-type: none"><li>• 0.15/0.2/0.3mm thick cans ideal for high frequency</li></ul>	<ul style="list-style-type: none"><li>• Easy for rework and maintenance</li></ul>	<ul style="list-style-type: none"><li>• SMT and Throughboard variations</li></ul>	<ul style="list-style-type: none"><li>• Hi-Rel contact design on Two-piece sockets</li></ul>	<ul style="list-style-type: none"><li>• Coin Cell Holders</li></ul>	<ul style="list-style-type: none"><li>• Terminals &amp; Spacers/Pillars/Standoffs</li></ul>