

## UHD Series with Fork and Blade Contacts

Amphenol's wide range of board level interconnects also includes high density UHD (Ultra High Density) Series module and backplane connectors. These utilize fork and blade contacts in a staggered grid pattern for attachment to printed circuit boards. The staggered pattern is 80 contacts per inch, .025 pitch in 8 rows. They are SEM-E format and are qualified to: EIA 15-763, DESC 89065, IEEE 1101.1 to 1101.9. SU configurations are also available.

The UHD module connectors have surface mount blade contacts and the mating UHD backplane connectors have solderless compliant press-fit tuning fork contacts. There are a wide range of high contact density patterns and the length and style can be tailored to meet customer requirements.

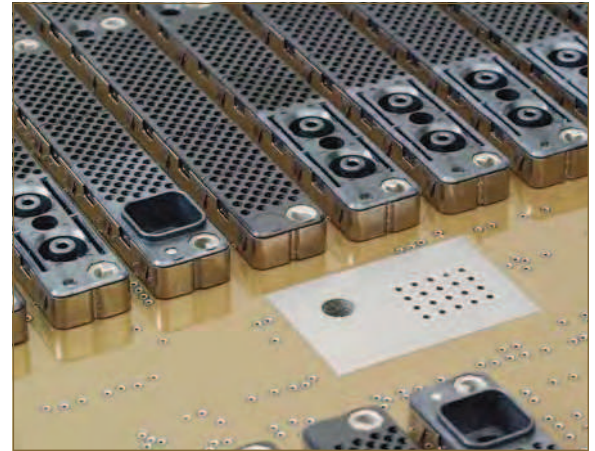
They are rigid pin terminated to the board or flex terminated to the board. Coax, fiber optics and power contacts can also be integrated into the connector configuration. Other options include EMI shielding and UHD interconnects can be provided in a stacking configuration. Module covers can be integrated into the connector system.

Extender board connector configurations are also available so that customers can have access to probe and test modules that are electrically connected to the backplane.

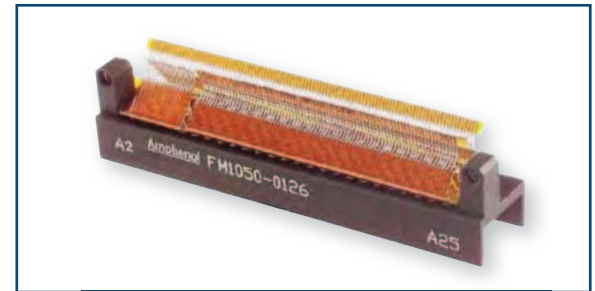
Standard configurations of UHD connectors are:

- 372 pin
- 300 pin multi-purpose (fiber optic, coax, power contacts can be intermixed)
- 296 pin with 270V power contacts
- 292 pin with coax
- 396 pin Futurebus + SEM-E
- 556 pin Futurebus + 10 SU (designs up to 680 contacts)

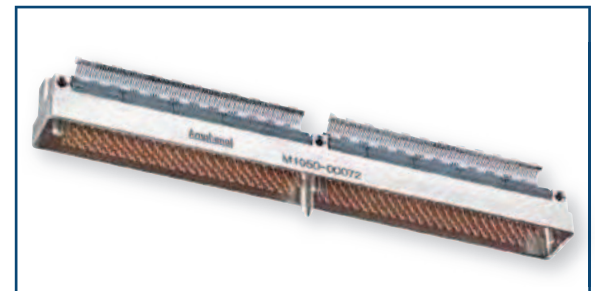
UHD Series connectors are provided by Amphenol Backplane Systems division of Amphenol. These connectors are a proven interconnect solution for advanced, high-reliability packaging requirements in markets of military and commercial aviation, space applications, shipboard applications, military vehicles, C<sup>4</sup>I electronics and ordnance. For more information see catalog 12-036 on-line at [www.amphenol-abs.com](http://www.amphenol-abs.com).



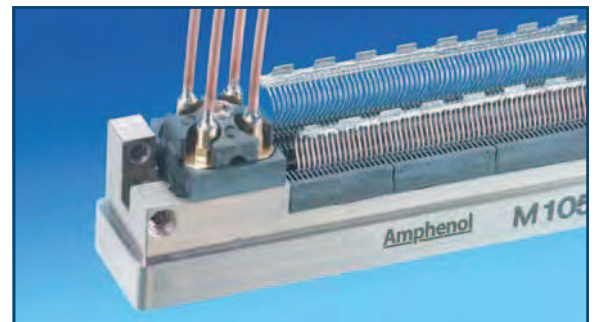
UHD Backplane Connectors on Board, Rigid Pin Termination, with Fiber Optics, Coax or Power Contacts



UHD Module Connector with Flex Termination



UHD Module Connector with Rigid Pin Termination



UHD Module Connector, Rigid Pin Termination plus Coax Contacts

Introduction/  
Pkg. Solutions/  
Brush Contact

LRM (Line Replaceable Modules)

Other Options/Access./  
VME/VITA(VIPER)

Fiber Optics/  
Hi Speed/RF/Power

High Density  
HSB3  
Hi Speed

Standard  
Brush

Low Mating Force MIL-DTL-55302  
Hybrids - Signal/Power/  
Coax/Fiber Optics

Docking Conn./  
Accessories/Install.

Rack & Panel  
Brush  
Ruggedized

LMD/LMS  
Rectangular  
Interconnects

Other  
Rectangular  
Interconnects