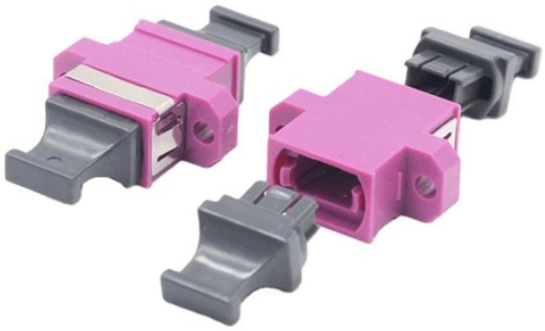
Optics & Photonics

Indzawo Optic Connect

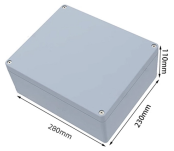
Optical Module Parallel Beam Solution



Optical Module Parallel Beam Solution

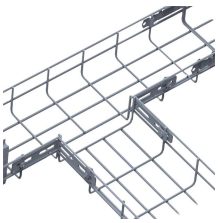
	Optics module for massive parallelization of structuring processes for roll-to-roll processes, whereby the laser beam is distributed over four scanner systems and divided into partial beams by means of ...
	Parallel-aligned 3M EBO ferrules collimate and expand the light beam, so small particles are much less likely to interfere with signal transmission. The light travels across ferrule interface without physical ...
	Versatile optical connection solutions that are scalable and modular can provide efficient, future-proofed capabilities for high-performance data centers.
	A promising alternative to fast laser scanner systems, as for example polygon scanners, are multi beam optics where a beam splitter distributes the laser power into several partial beams to thus enable ...
	Large patterns were created in one single step of microfabrication by dividing the original laser beam into 51×51 and 101×101 parallel beams using Diffractive Optical Elements (DOEs).

Here, by a compact beam splitter composed of a metasurface and a fiber array, we proposed a wide-angle (~120°) OWC optical link scheme that can parallelly support up to 144 ...



Parallel optical solutions are particularly cost-effective for short- to medium-distance transmissions, whereas WDM solutions are more advantageous for long-distance transmissions as ...

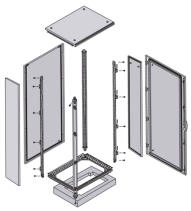
Innovated expanded beam connector options integrate 12, 16 or 144 fibers into a single connector, simplifying cable routing and offering high fiber density. Next-generation optical interconnect products ...



Demonstrate the principles of a separable single-mode (SM) expanded-beam optical connector to chip interface by assembling a demonstrator module and verifying optical performance.

Multiple embedded parallel optic modules facilitate the need for dense optical interconnect technology at the card edge demarcation point. With current architectures, this parallel optic demarcation occurs ...

Silicon integrated Optical Phased Arrays (OPA) have been widely studied for wide and accurate beam steering applications, taking advantage of ...

	Using Hamamatsu, assembly technology, optical technology and circuit technology, we can suppress optical and electrical crosstalk between channels and achieve superior light-shielding characteristics ...
	Silicon integrated Optical Phased Arrays (OPA) have been widely studied for wide and accurate beam steering applications, taking advantage of the high power handling capability, the ...

Contact Us

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