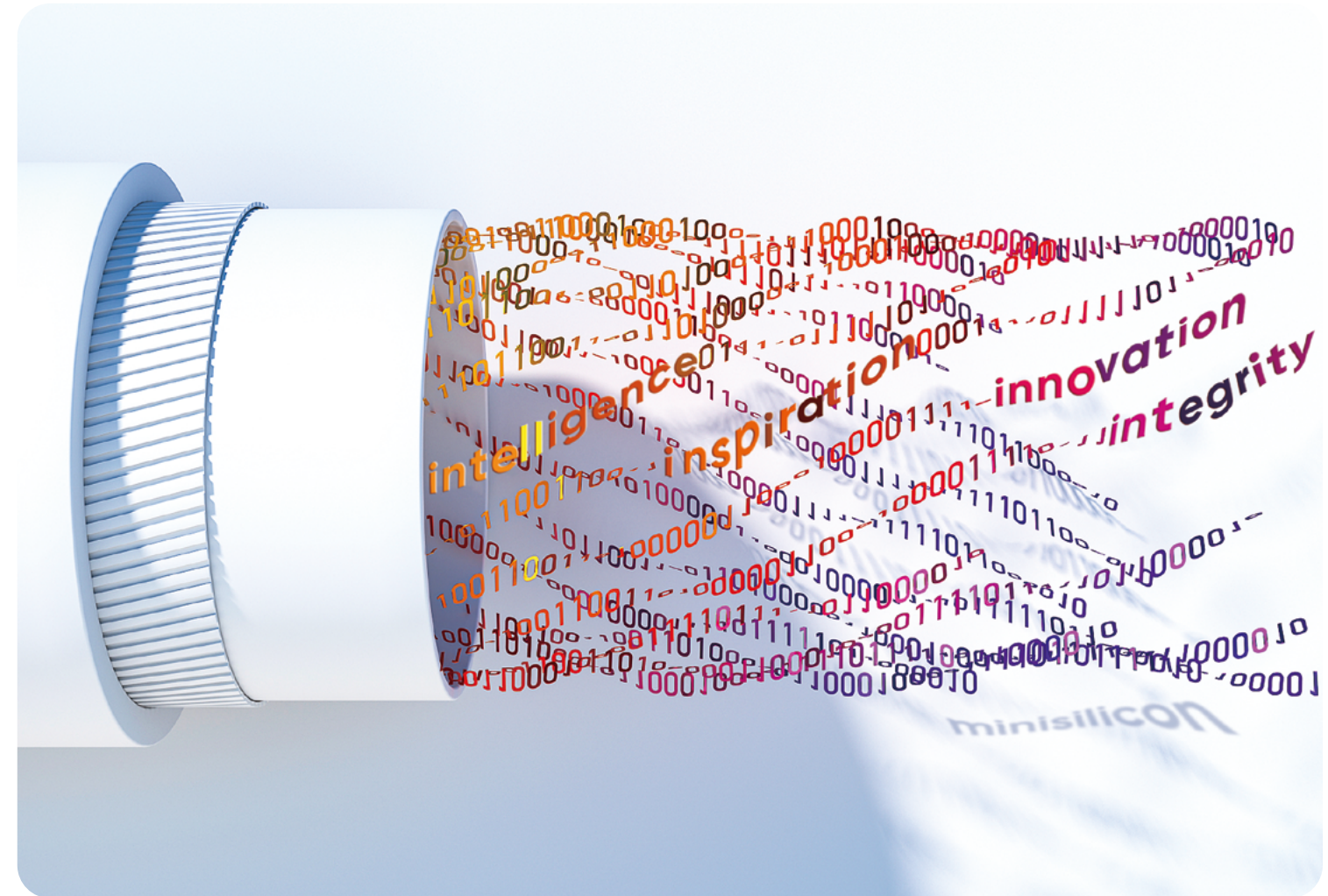


MINISILICON



MINISILICON PORTFOLIO



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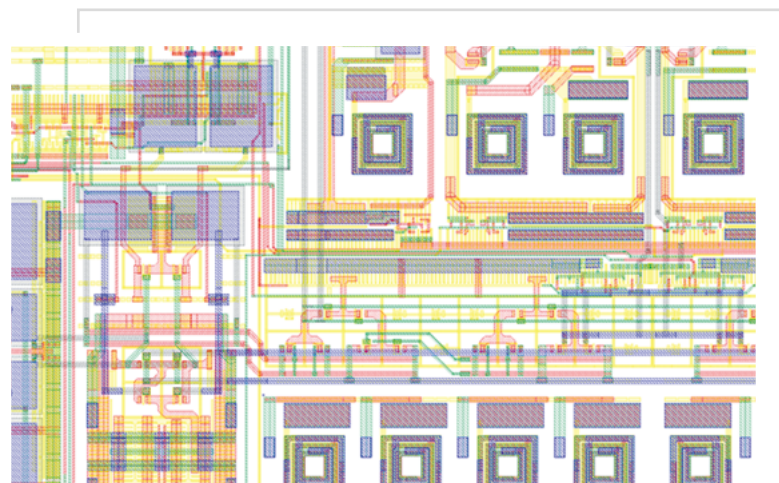
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explore the new era of light



COMPANY PROFILE

minisilicon is a leading mixed-signal and timing product company. minisilicon supports a large portfolio of electronic components for optical communications from Cloud & Datacenter networks to 5G networks to FTTx access networks. The portfolio addresses the high-performance analog interfaces between electrical and optical domains, providing solutions to meet the demanding size, power and signal integrity requirements of today's high-speed networks—which are expanding to meet the continuously growing demand for data capacity. These products include high performance laser diode drivers, transimpedance amplifiers and limiting amplifiers: for datacenter, enterprise, and telecom optical systems operating up to 400 Gbps and beyond. For FTTx 10G PON solutions, minisilicon has the broadest portfolio of limiting amplifiers and TIAs for 10GEPON, XGPON and XGS PON systems.

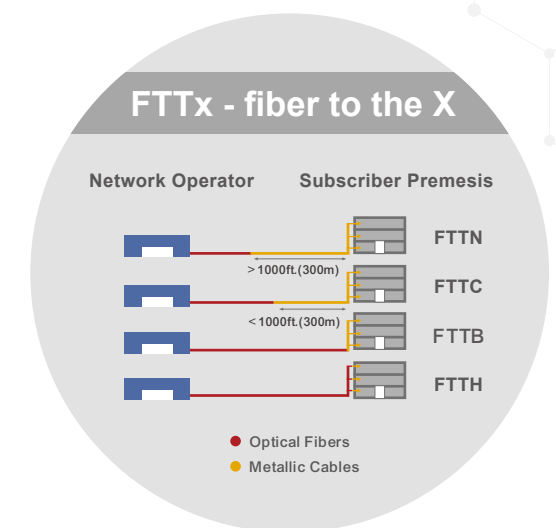
With a growing product portfolio, minisilicon also offers high performance 5G transceiver, MCU designed for optical modules and simple Fan-Out buffers to address unique customer requirements.



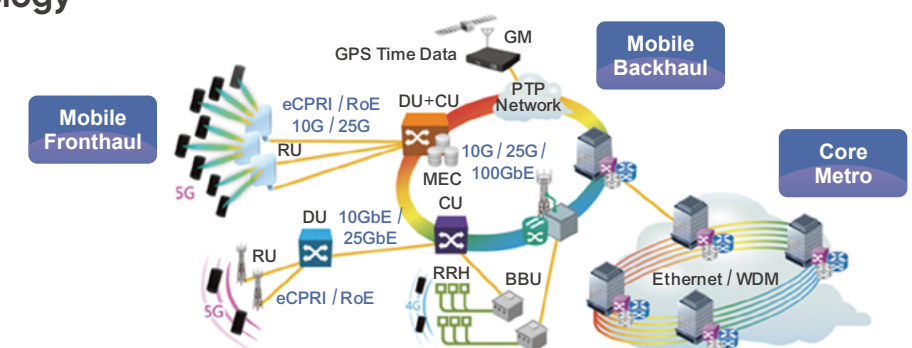
MARKETS

FTTx

FTTx stands for Fiber to the X (where X represents a particular name or object, such as 'home' or 'cabinet'). It is a telecommunications network architecture that is used within the local loop (the last section of the providers network that spans between the end-user premises and the edge of the carrier network) and delivers broadband connections to homes, businesses and organizations all around the world.



Communication Technology



5G Network

5G is the 5th generation mobile network. It is a new global wireless standard after 1G, 2G, 3G, and 4G networks. 5G enables a new kind of network that is designed to connect virtually everyone and everything together including machines, objects, and devices.

5G wireless technology is meant to deliver higher multi-Gbps peak data speeds, ultra low latency, more reliability, massive network capacity, increased availability, and a more uniform user experience to more users. Higher performance and improved efficiency empower new user experiences and connects new industries.



Datacenter

Data Center is a physical facility that organizations use to house their critical applications and data. These centers can house large amounts of critical and important data, and therefore are vital to the daily functions of companies and consumers alike, with security and reliability of data centers as key factors. A data center's design is based on a network of computing and storage resources that enable the delivery of shared applications and data. The key components of a data center design include routers, switches, firewalls, storage systems, servers, and application-delivery controllers.



Consumer AOC

With digitalization being the new norm of society, people's demands have fastened internet speed, stable transmission, and high bandwidth. With simple copper cables failing to achieve all these purposes, consumers are turning towards AOC fiber cable for obtaining a reliable connection. As per the market outlook, increase in demand for higher bandwidth is majorly driving the growth of the consumer active optical cable market, owing to rise in adoption of cloud applications, video services, and online gaming. This, in turn, has created a greater need for active optical cables as these cables provide higher bandwidth, enhanced reliability and small bend radius for easy installations.



CDR

clock data recovery, plays a vital role in the process of optical module signal transmission, CDR are responsible for fiber communication systems to recovery clock and retime data, which affect the speed and transmission quality of optical fiber transmission. CDR has two main functions, the first is to provide clock signals for each circuit at the receiver end; The second is to judge the received signal, which is convenient for the recovery and subsequent processing of the data signal.

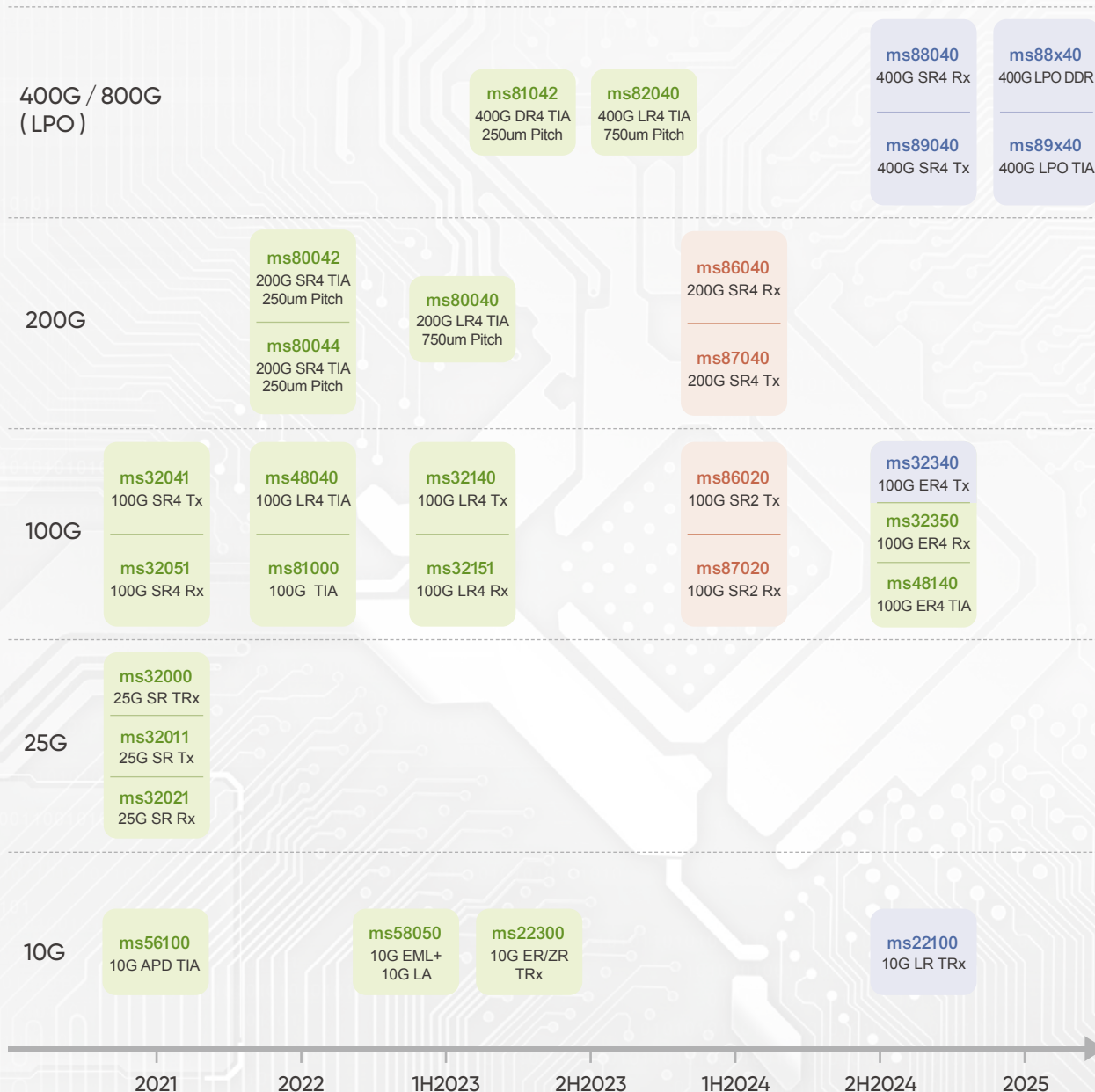


Clock Buffer

These products are used to condition, manipulate and distribute clock/data signals within a system. These devices are well-suited for most applications where the input signal is of good quality, and the goal is to buffer, fan-out, divide, or multiplex the input signal. A single-output clock buffer is also useful for translating a clock from one signaling standard to another, such as LVCMOS-in to LVPECL-out.

Data Center and Transmission

Available Sample In Development



FTTx-PON Access

Available Sample In Development

5G/Coherent/Other

Available Sample In Development

